

H. O. Ulrich
Owens of Missouri and Arkansas.
Notebook 13.
1907.
L. 274

3
1

U. S. GEOLOGICAL SURVEY
TRAVERSE BOOK

—————

9-904

June 26, 1907 .

PROVINCIAL ACTION OF COMMITTEE ON GEOLOGIC NAMES.

Mr. Ulrich's work in Ozark region, Mo.-Ark.

Ordovician

Kimmswick limestone
----- chert ("Auburn rejected; preoccupied.) Occurs in eastern part only.
Izard limestone (southern part) = Plattin l.s.) of eastern
Joachim l.s. (part
St. Peter sandstone
Everton limestone, local zinc-bearing rocks at top of "Yellville."
(Yellville formation not decided upon)
Jefferson City limestone
Roubidoux formation
Bolin sandstone member (northwestern part only)
Gasconade formation
Gunter sandstone member (northwestern part only)
Proctor limestone
Eminence limestone
Potosi limestone
Elvins formation = basal part of Potosi limestone and Potosi slates and conglomerates of Nason; also = "Edgewise" beds.
Bonne Terre limestone
La Motte sandstone.

M. G. Wilmarth.

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U. S. GEOLOGICAL SURVEY.
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To the Director of the
United States Geological Survey,

Washington, D. C.

6-241

E. O. Ulrich.

Field Season 1906

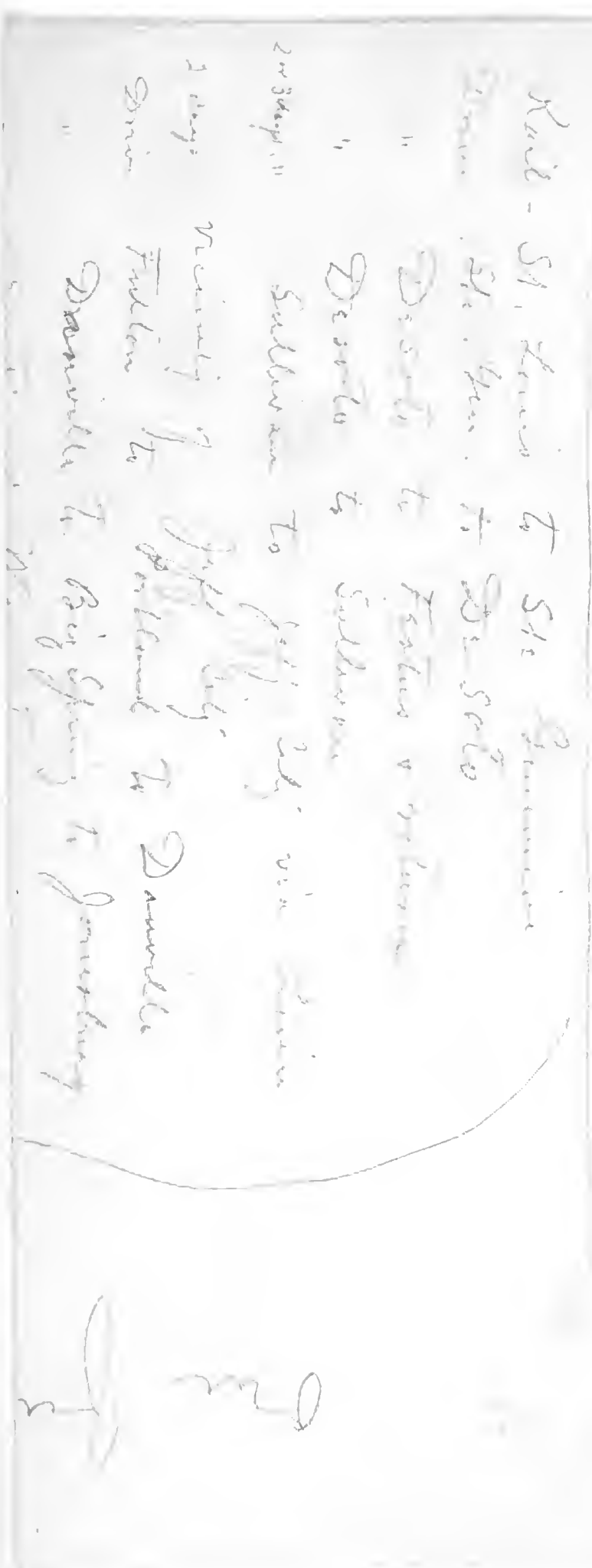
Ozarks of Missouri
and Arkansas.

E. O. Ulrich.

Fulton To Portland (on No. 80) Then NE To Danville.
 Danville to Big Spring then up Bear Creek to Junction.
 24 pounds mile to Maunton, then drive S. down
 Charlette creek & north up Dry Fork.

St. Louis - vicinity of road to Pacific.

Silica and sand in Platten creek.



- 1 day St. Louis to St. Louis
- " " Dozets to Fulton & Johnson
- " " Dozets to Sullivan
- 2-3 days " Sullivan to Jct. Big Spring via Danville
- 3 days " vicinity of Jct. Big Spring
- 5 days " Fulton to Portland to Danville
- " " Danville to Big Spring to Junction

...THE CITY HOTEL...

D. A. FAIRLEY, Proprietor

ROOMS NEWLY FURNISHED
PERFECT IN APPOINTMENT

Strictly First Class

South Side Public Square. Phone 25

Rates \$2.00 Per Day

Route after Aug. 12th 1906
Versailles, Mo., 190


- Aug. 13. Versailles, via Gravois Mills, to Eldon.
- " 14 Eldon to Tuscumbia and if possible drive on to Ramsey P. D. (use Eldon team to Dixon)
(Or Eldon to Baynell + then to Tuscumbia, practical to Iberia. Dixon)
(15 Tuscumbia to Ramsey + beyond)
- " 15 or 16. Ramsey to Iberia, then east to Bobin creek sandstone outcrops + then on to Dixon.
- " 16 or 17 Dixon to Rolla.
- " 18 or 19 Rolla to Steelville
- " 19 or 20 Steelville to Potosi
- " 20 or 21 Potosi to Ironton or Centerville
- " 21 or 22 Ironton to Lutesville
- " 23 Lutesville to Cape Girardeau
- " 24 Between Cape + Thebes
Sand Dickey To ^{Blanch Rock} Smithville, Ark. + later to Reynolds, Tenn.
Rail from Cape at Thebes To ~~Dixon~~ ^{They} then drive east to Doniphan
~~Doniphan to Grandin~~
Doniphan to Poplar Bluff
~~Poplar Bluff~~ by rail to Potosi or St. Louis
or St. Louis to Potosi or Dixon
Potosi to Sullivan
Sullivan to New Haven or Hermann.
about Aug 29 or 30. Hermann to Jeff. City by rail.
Vicinity of Jeff. City + south to Morrow Mine
Jeff. City by rail to Poplar Bluff + return to Jeff. City
Jeff. City north to New Bloomfield or Fulton
Jeff. City to clatterback ford of Cedar Creek, then east to Hartsburg
It return to Jeff.

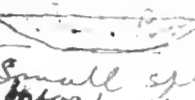
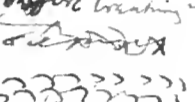
[Faint handwritten notes and a simple geological sketch showing a horizontal line with a slight dip to the right.]

[A separate sheet of paper with very faint handwritten notes, possibly a continuation of the notes on page 2.]

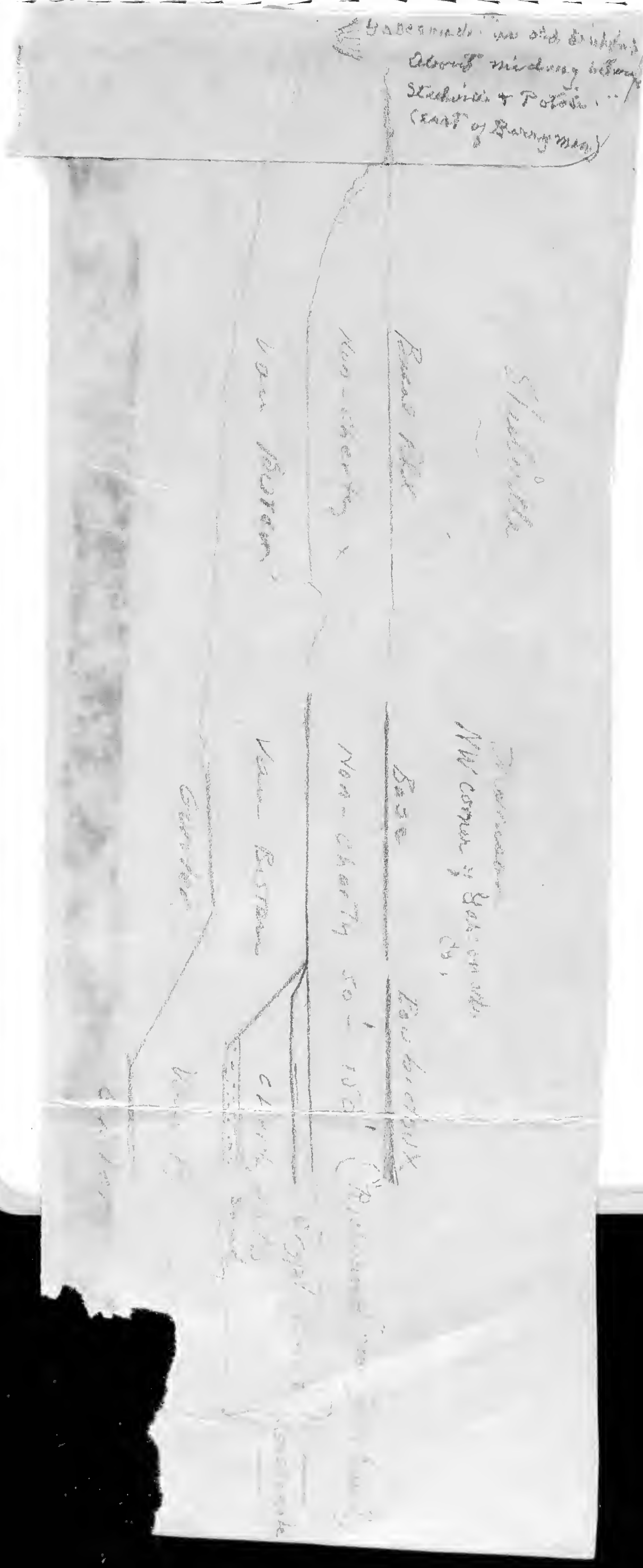
Ropy honey combed chert
Stringy honey combed chert
Flint ^{lens} lamellar Crypt.
Massive ^{aggr.} Crypt.
Cryptogam.
Pebbly drusy.
1/4 - 1/2 inch mamillary Crypt.

[A detailed geological column with handwritten labels and symbols.]

Jeff.  Gray dol. & carbon r.
 Cryptogam
 Occasional ss. lens
 Common pebbly crypt.
 Pebbly drusy
 ss.
 Common oolitic
 Mass. aggr. Crypt.
 Massive white chert.
 Dol. & chert

Roubidoux  Sandstone lens.
 Succession  Small granitic chert
 for breaking up fossils
 Stringy honey combed
 chert
 Flat. loose lam. Crypt.
 Mass. crypt. chert
 Brnter ss.
 Prouten

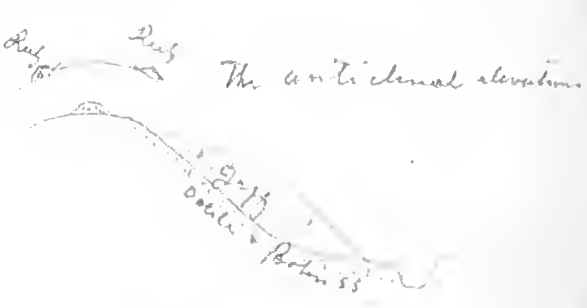
WY Gabesmaidi in old district
 about midway between
 Stachviti & Potolbi
 (east of Baringman)



Rolla, Mo. July 19th 1906. North East to North of town

Dr. E. R. Buckley's house & farm is situated on the N. East edge of town
 east on the Eastern slope of the divide between the Gasconade
 and Meramec rivers. The crest of the divide which passes in
 a N. E. direction through Rolla and then trends more northerly
 extends ^{to} top of Reubens dome. Generally the top consists of residual
 Bolin ss and ^{the overlying} platy ^{or} dolitic congl., with occasional pieces of Jeff. chert.
 Here and there Jeff. chert is separated from the platy dolite of Reubens by an irregular
 thin bed of siliceous, green or purple, clay (finchay). (Compare slope at Versailles, in Lincoln
 R.R. cut, west of Forister). Occasionally this or a similar clay appears to underlie the
 ss. but am inclined to regard this position as due to settling during course
 of solution of valley rocks. Again the base of the Jeff. as in a low cut
 1/2 m. S of town, is a ^{massive} congl. massive dol. layer resting unconformably
 upon the irregular, probably eroded surface of a layer directly overlying
 the stringy, unstratified, porous, white specky dol. so generally quarried in this
 vicinity. (This bed is Jeff. according to Buckley) In other places the Bolin ss, horizon,
 consisting of dol. congl. and ss. interbedded, also the overlying dolitic congl. (Here generally
 thin bed always easily recognizable) is also occasionally the pebbly drusey bed which
 underlies the Bolin ss, in all 15-20 ft of rocks, interposed between beds 10-2
 of shales.

Especially on the tops or just off the tops of
 the Bolin ss. residue seems to have been heaped
 into reef-like accumulations. These reefs
 appear to date from time of Jeff. superposition.
 Similar reefs have been observed near or at
 the Jeff.-Reubens contact at many places and some of these doubtless date
 from that time. Others however may be much younger, - probably initial
 Miss. & Pennsylv. accumulation but not St. Peter, as believed by Buckley.



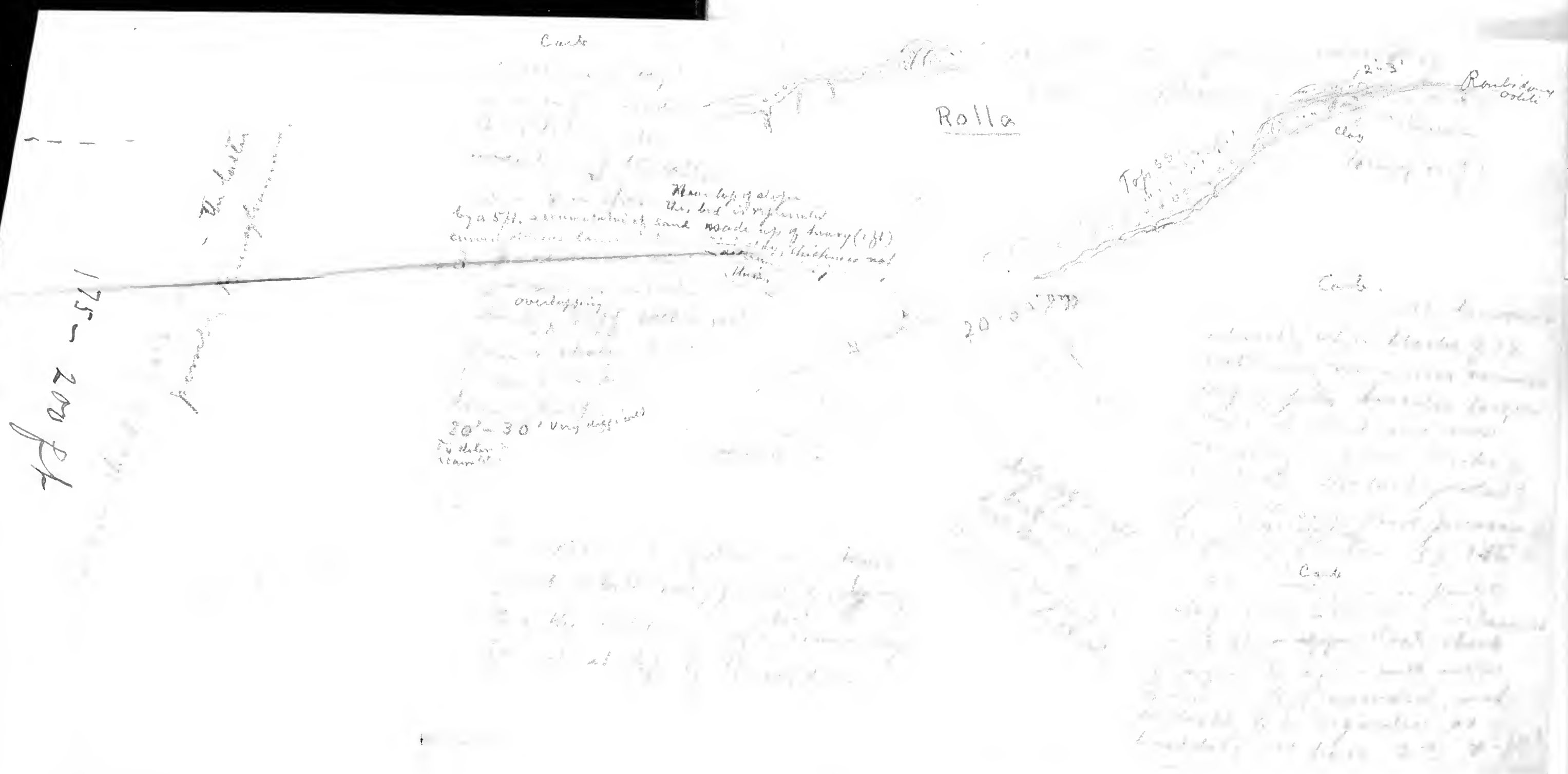
While the crest of the anticline (extreme tops of highest hills) exposes more or less eroded
 Upper Reubens, the slope of hills both to N. W. & S. E. are as indicated by sketch
 skirted by remaining strips of Jeff. cotton rock that these are really Jeff. is indicated
 less by dip than by lithology, apparent structure and fossils. No congl. granular seems in them
 cherts derived from these cotton rocks while the lithology and the fossils of the beds
 associated with the ss. beds at top of ridge, in bottom of valleys are the same as those found
 elsewhere in association with Bolin ss.

Rolla July 19-20 - 2

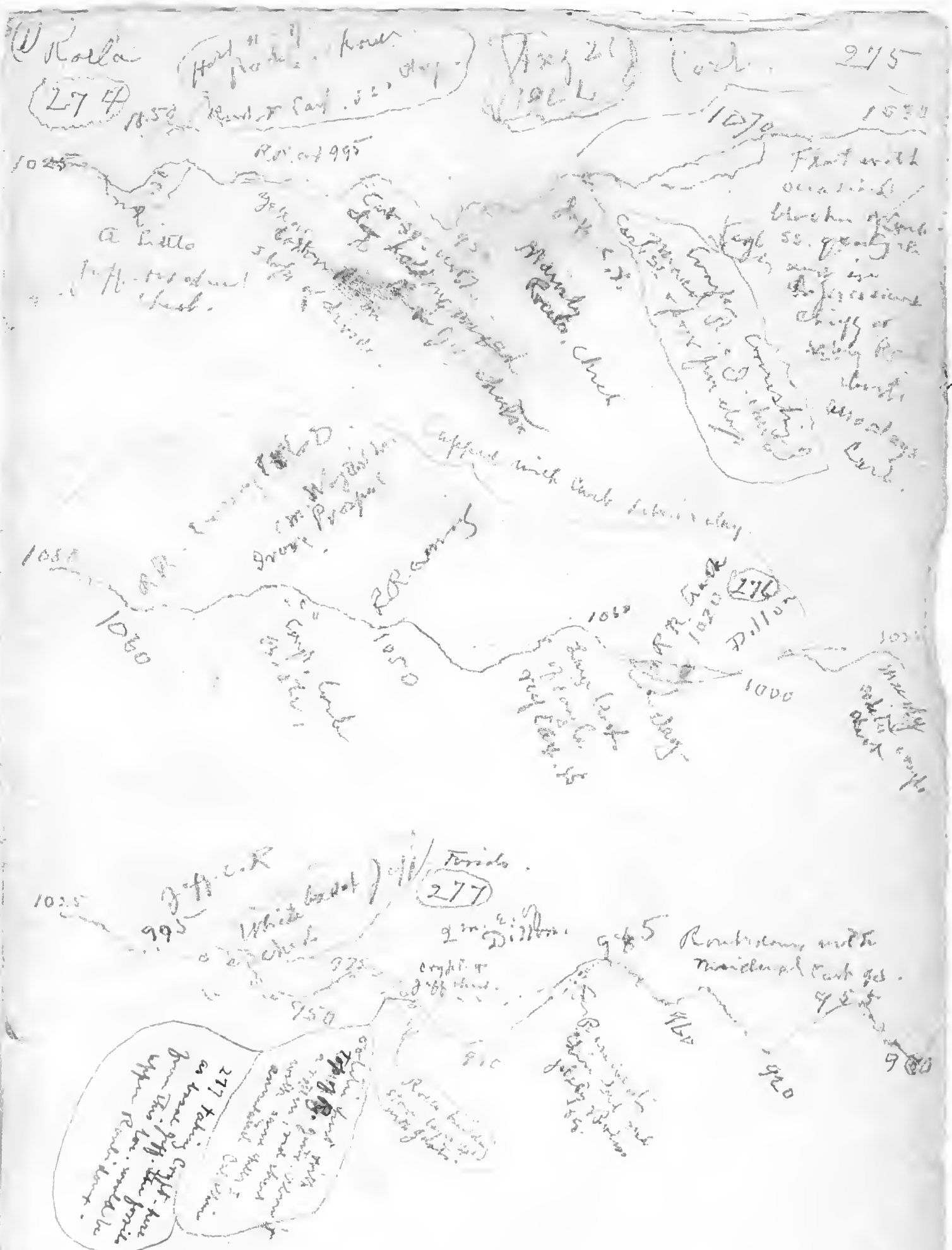
The large cut ~~just~~ ^{1/2} m. S.W. of town consists chiefly of Cotton rock. It is undoubted Jeff. ch. and according to my interpretation lower Jeff. The cut shows the usual slight ^{local} folding generally apparent in the rocks of the Ozark series. It shows also the irregular bedding common in the ^{lower} Jeff. & Roundtop. Beneath one of these irregular contacts occurs an irregular ^{soft} clayey bed 1 ft. or less in thickness. In this are peculiarly ^{lenticular} smooth flints, 2"-6" in diameter. Similar smooth flints have been observed at numerous points west of Rolla & south of Cole Camp exposing mixed Upper Rock & basal Jeff. cherts.

id. 100
100

Vicinity of Rolla, Mo.
July 19-20, 1906



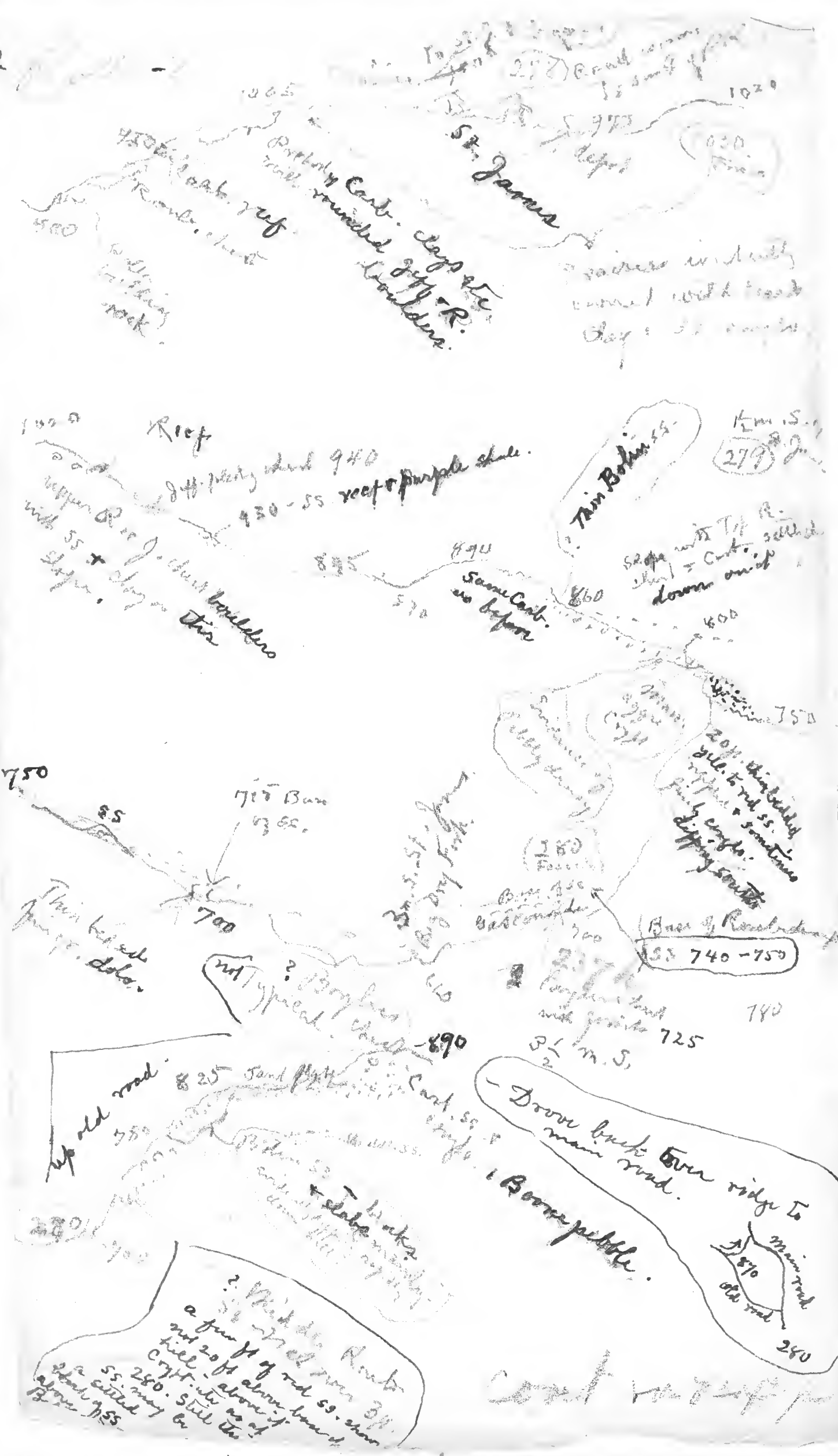
Jeff. city actually overlaps in this region on Rolla, and it is not by any means basal Jeff. The joint that generally occurs or come near top of old anticline is the bed filled with *Cryptolagus* beds. These ^{are} noticeably of lighter color than the dirty brown shales of the Rolla. When the two shales come together, as on the west slope of the watershed where crossed by the Newberg road 1 mile or less west of town, the contrast in color is very striking. This contrast in color was noticed already on the high prairie country west of Versailles. It is to be observed further that the conditions at Rolla are decidedly like those prevailing in the vicinity of Versailles, where the Jeff. likewise sometimes occurs not on top of the axis but on one or both slopes. Further, they both areas contain pieces of the glint clay, and ^{thin} masses of ss. to be explained only by the reef theory. Finally, I have little doubt that both these ss. masses and the fine clays, especially when the latter are purple are of Carboniferous age if whether of Mississippian or Pennsylvanian it is difficult to decide with the evidence at hand. If of the age then the brown was either not deposited over the crests of these anticlines or it must have been removed prior to Pa. time. If of Mississippian then they must have been ^{deposited} deposits - 1887 etc.



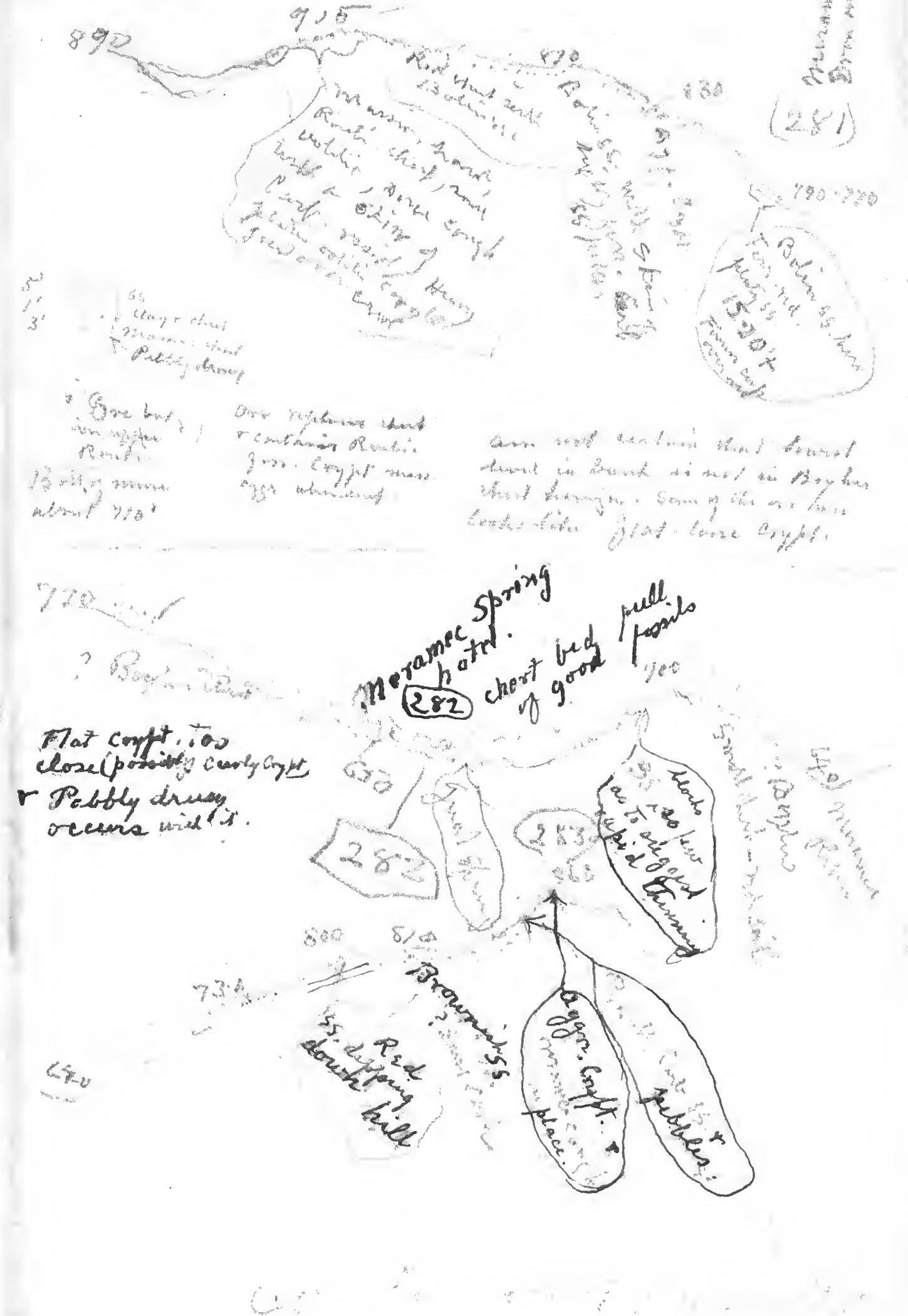
Rolla to Steeleville, via. Meramec Springs. Aug 21.

(A)

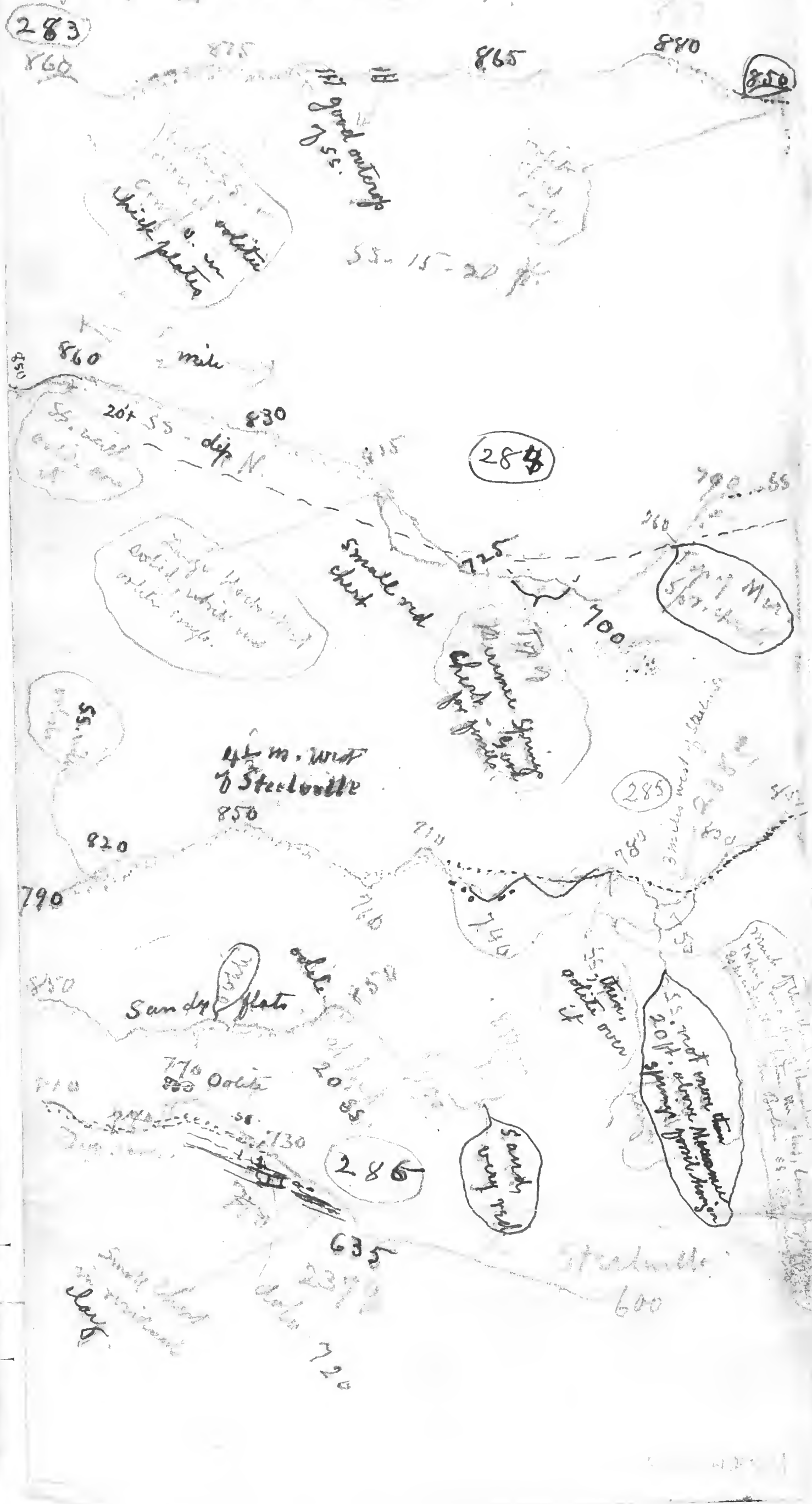
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3 Rolla to Meramec Springs 3.



Rolla to Steelville - 4.

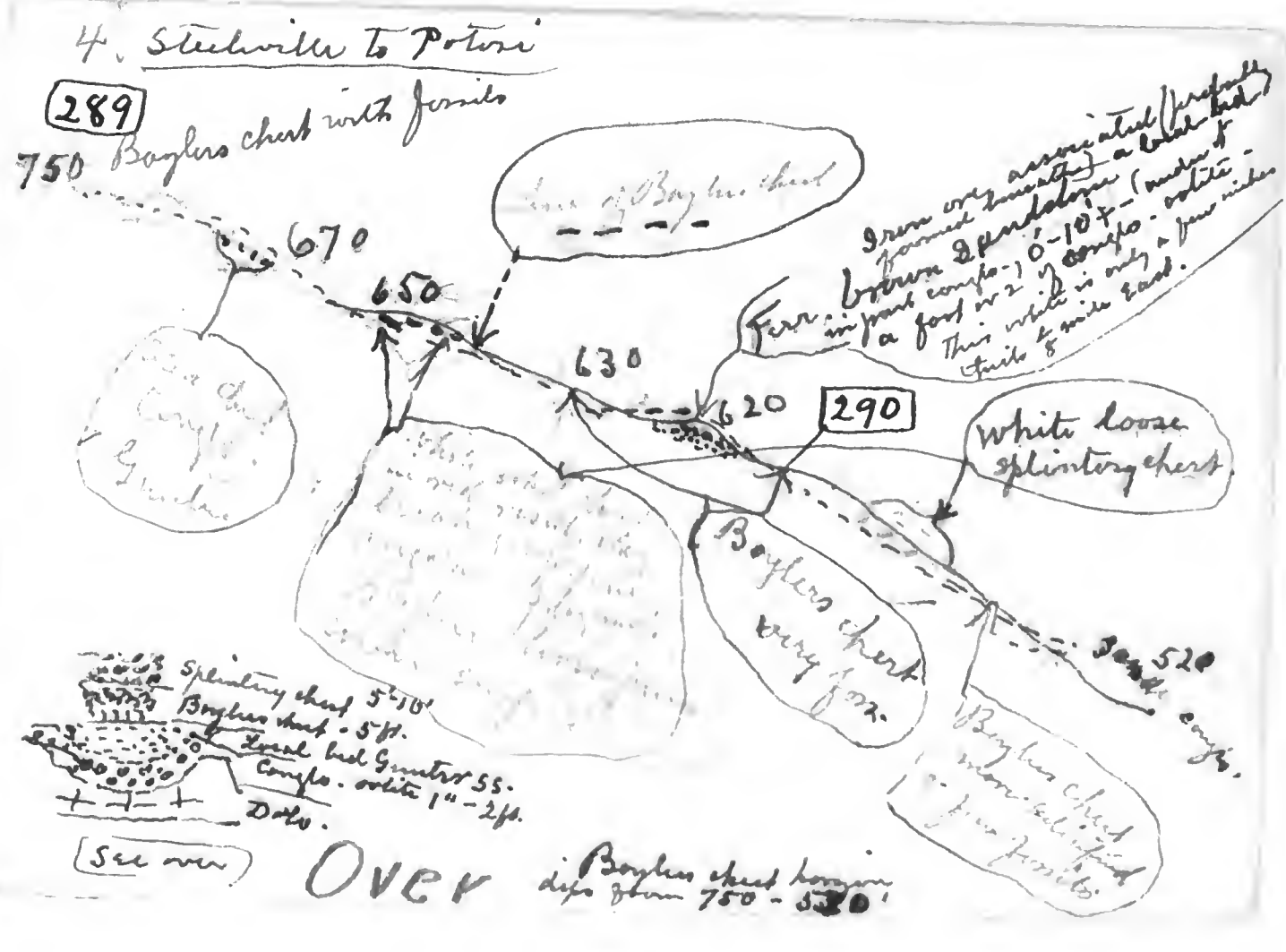
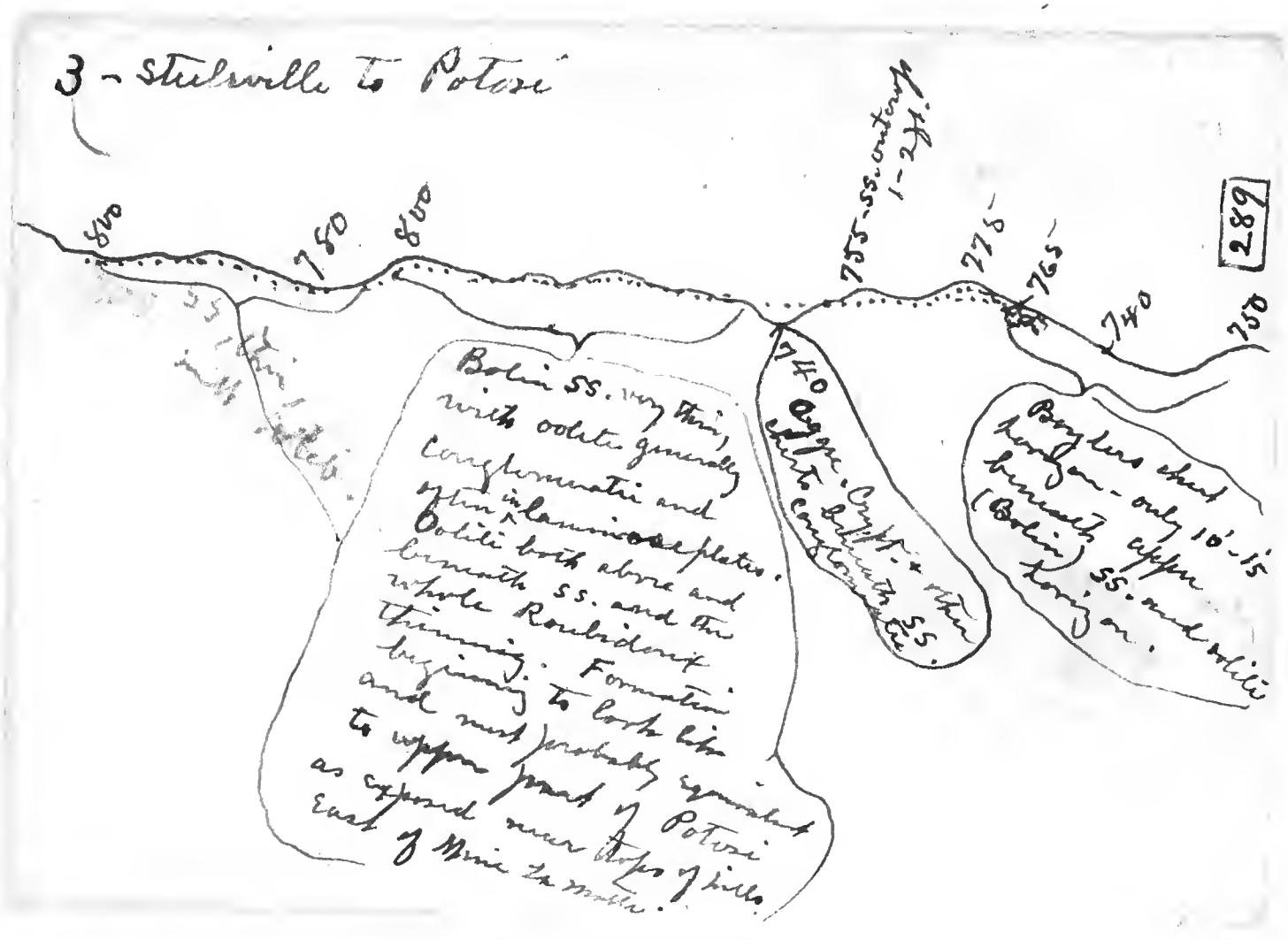
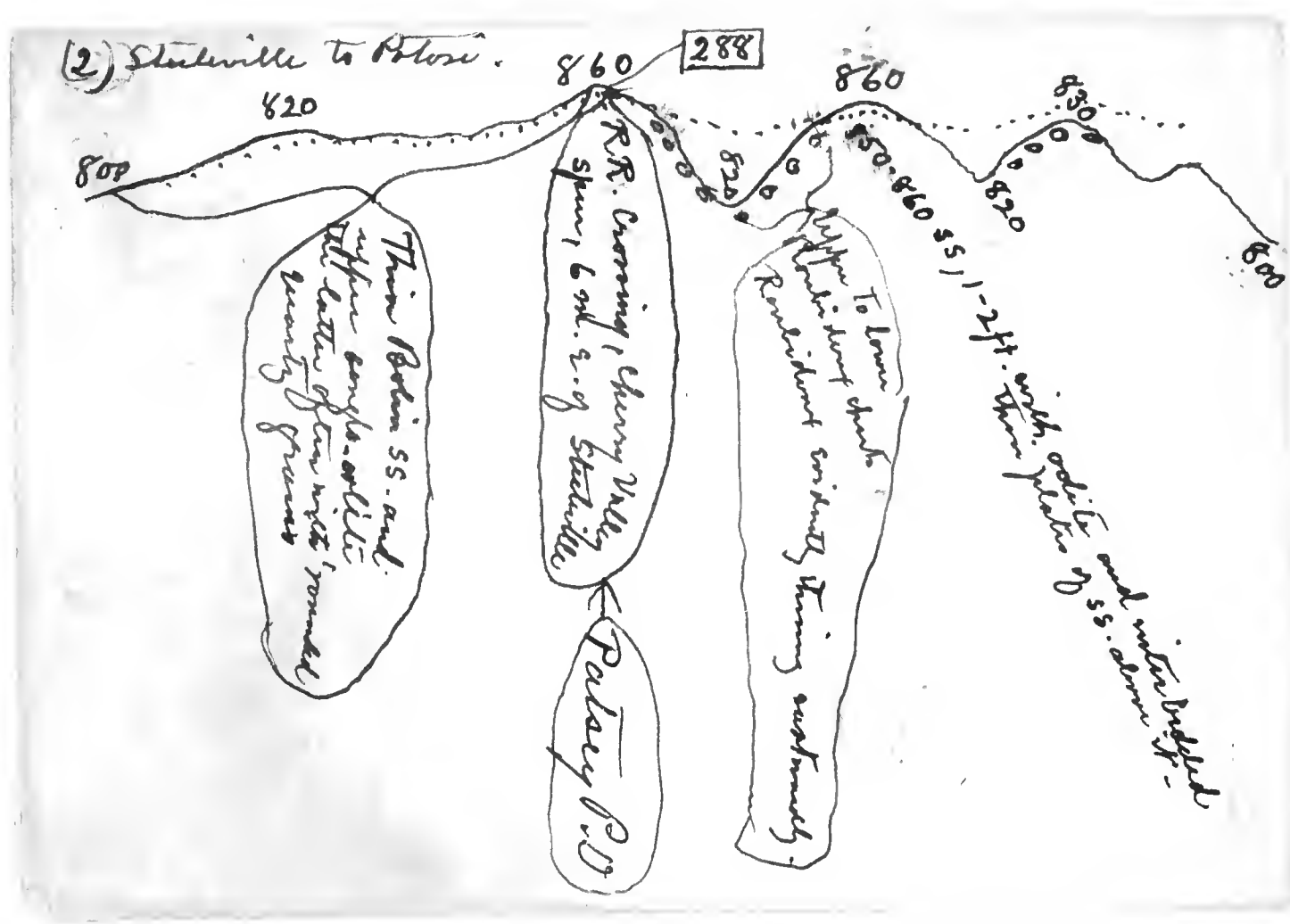
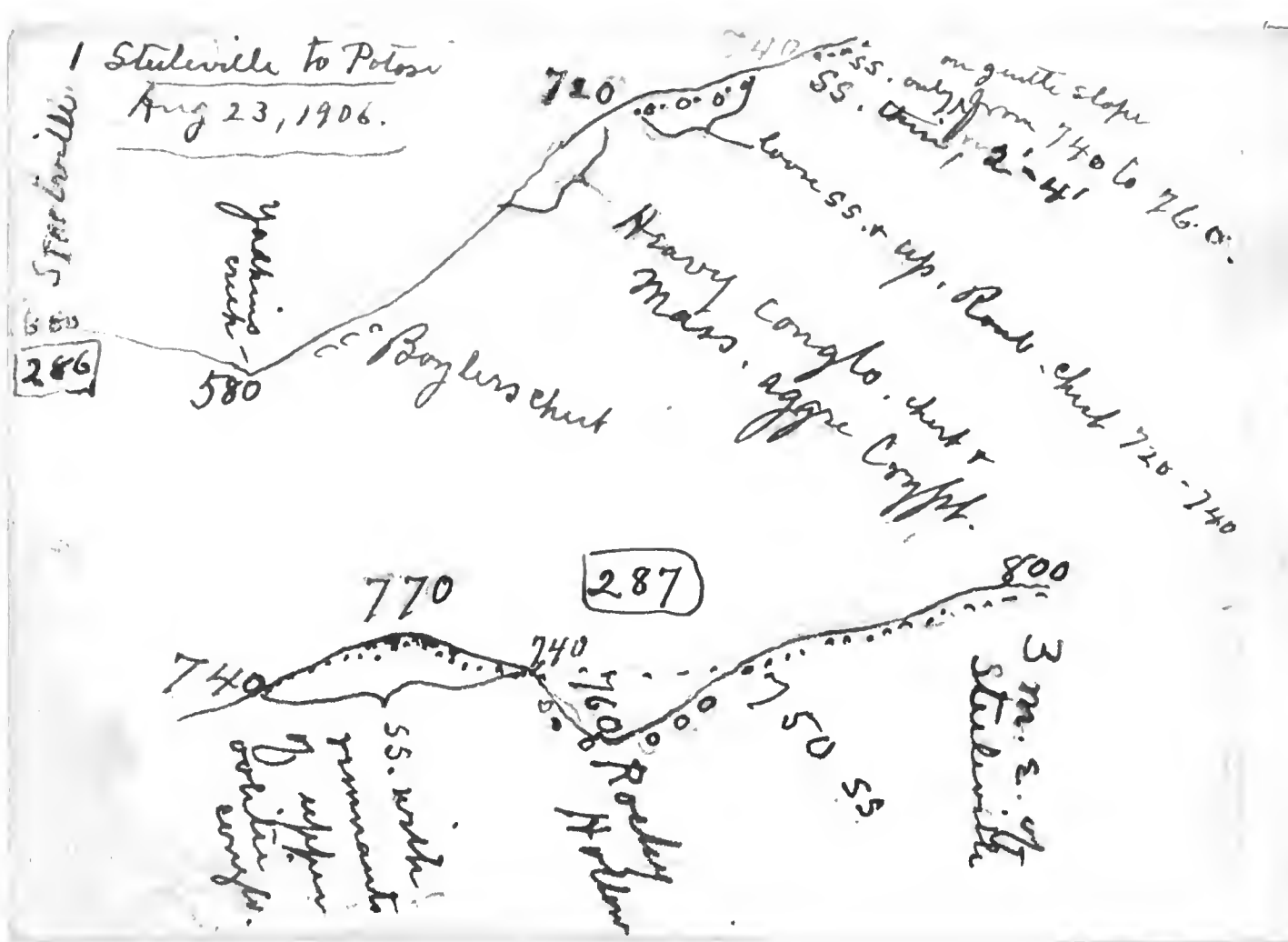


Aug. 22nd 1900

W 800

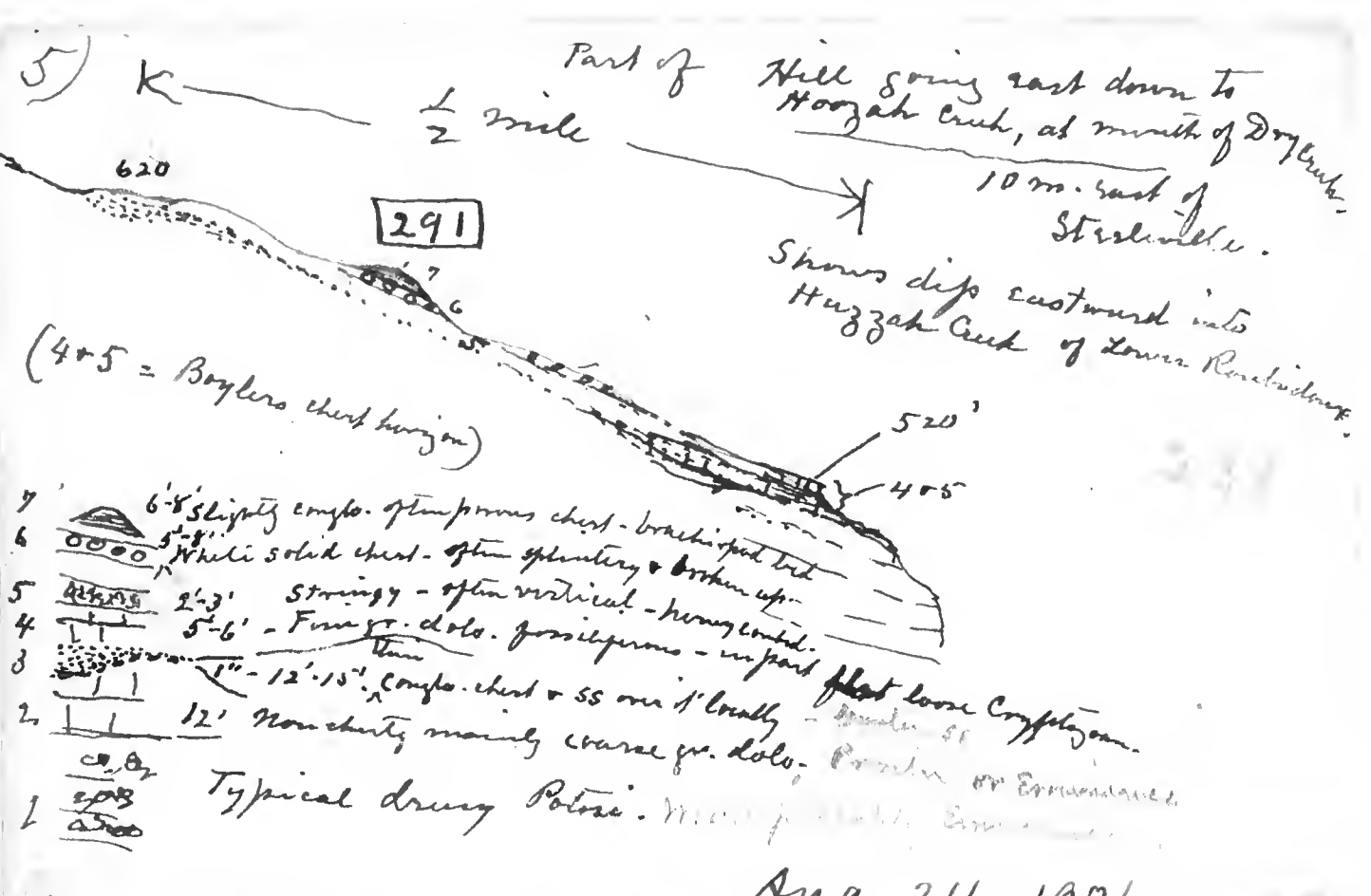
- (L. road)
 First hill west of
 Steelville in Missouri
 Spring Road
- 760' (L. road)
 20' - 30' ss.
 Basal 720 - 725 - 730 - 735 - 740 - 745 - 750
 720 - 725 - 730 - 735 - 740 - 745 - 750
 740 - 745 - 750 - 755 - 760
 750 - 755 - 760
 760 - 765 - 770
 770 - 775 - 780
 780 - 785 - 790
 790 - 795 - 800
 - 286
 287
 288
 289
 - 685 - solid chert, flint crystals + 1/2 mass. (fossils)
 Soft and congl. rd chert. (Some of these [?] includes Missouri
 [?] [?] [?])
 - 675 - Splintery congl. sh
 665 - irregular spongy layers
 small chert in marl clay
 - 635 - Flint crystals - strongly honey combed

at outcrop rocks dip
 strongly east (downhill)
 probably because of
 near surface solution and
 slumping.

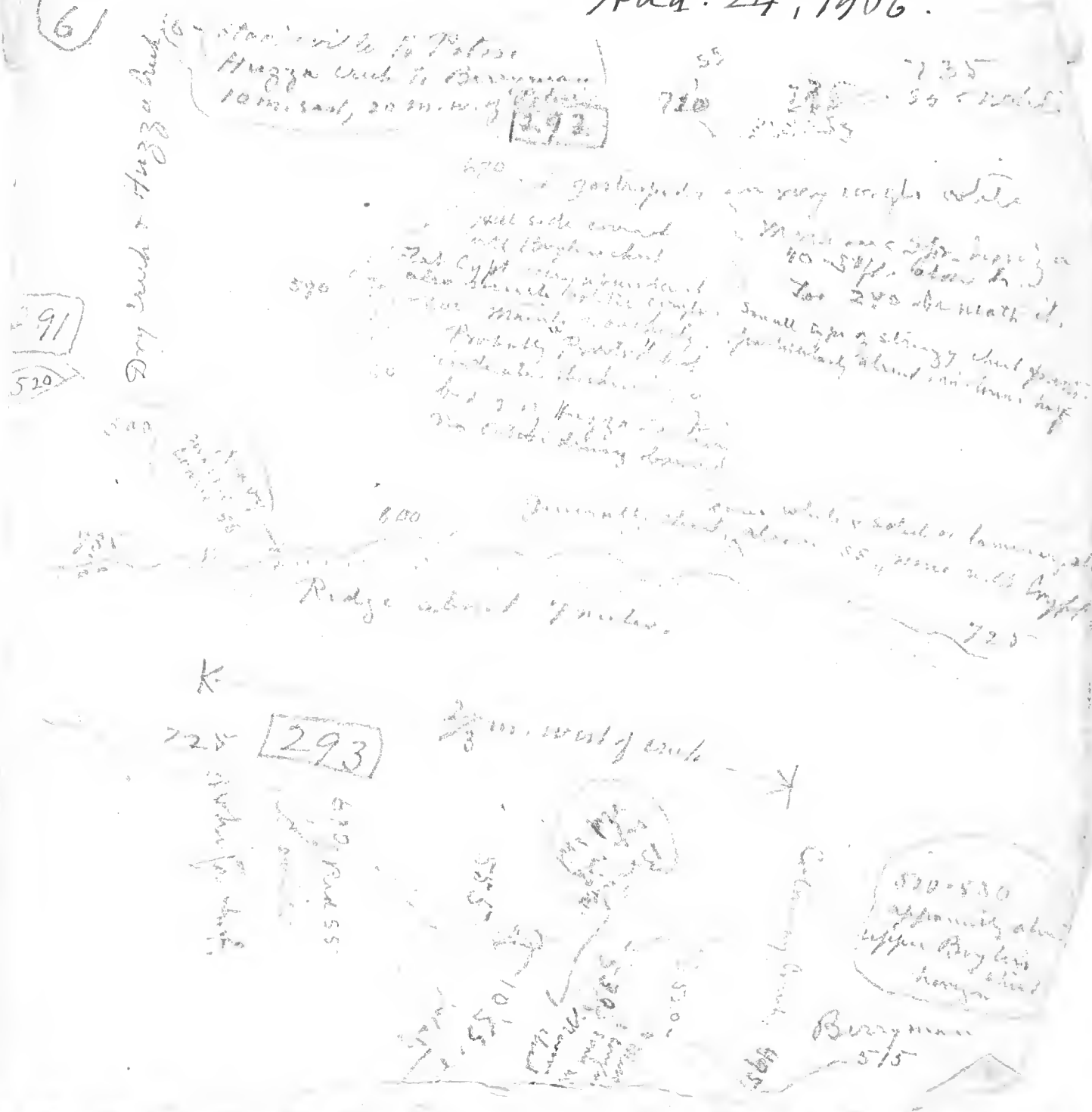


1 Studeville to Potosi
 Aug 23, 1906.

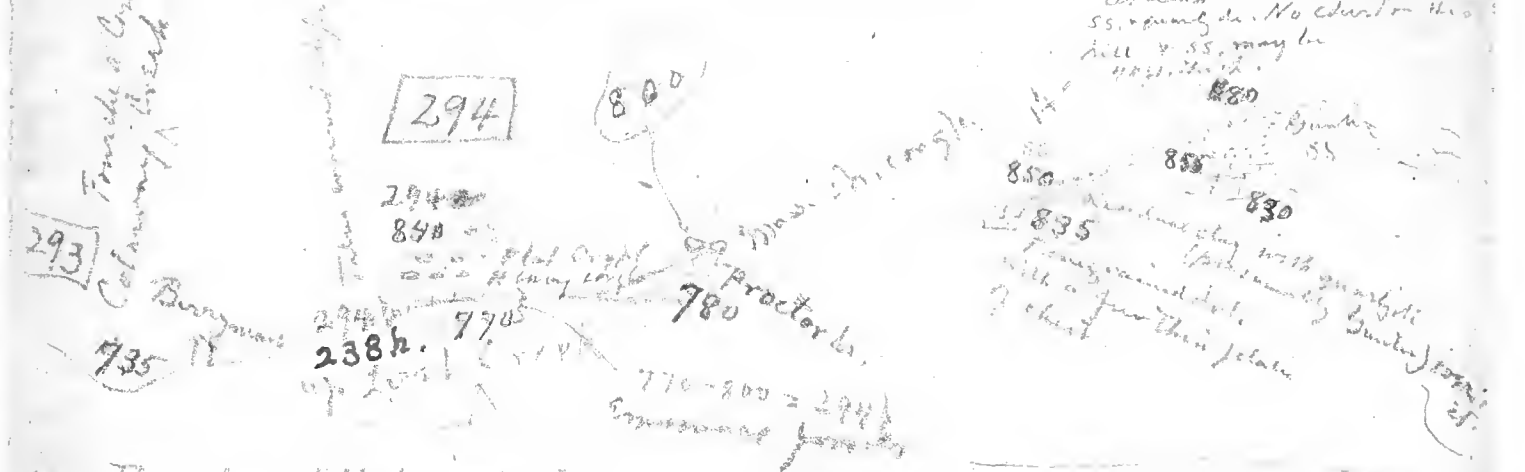
710 on gentle slope
 SS. only from 740 ft.
 400



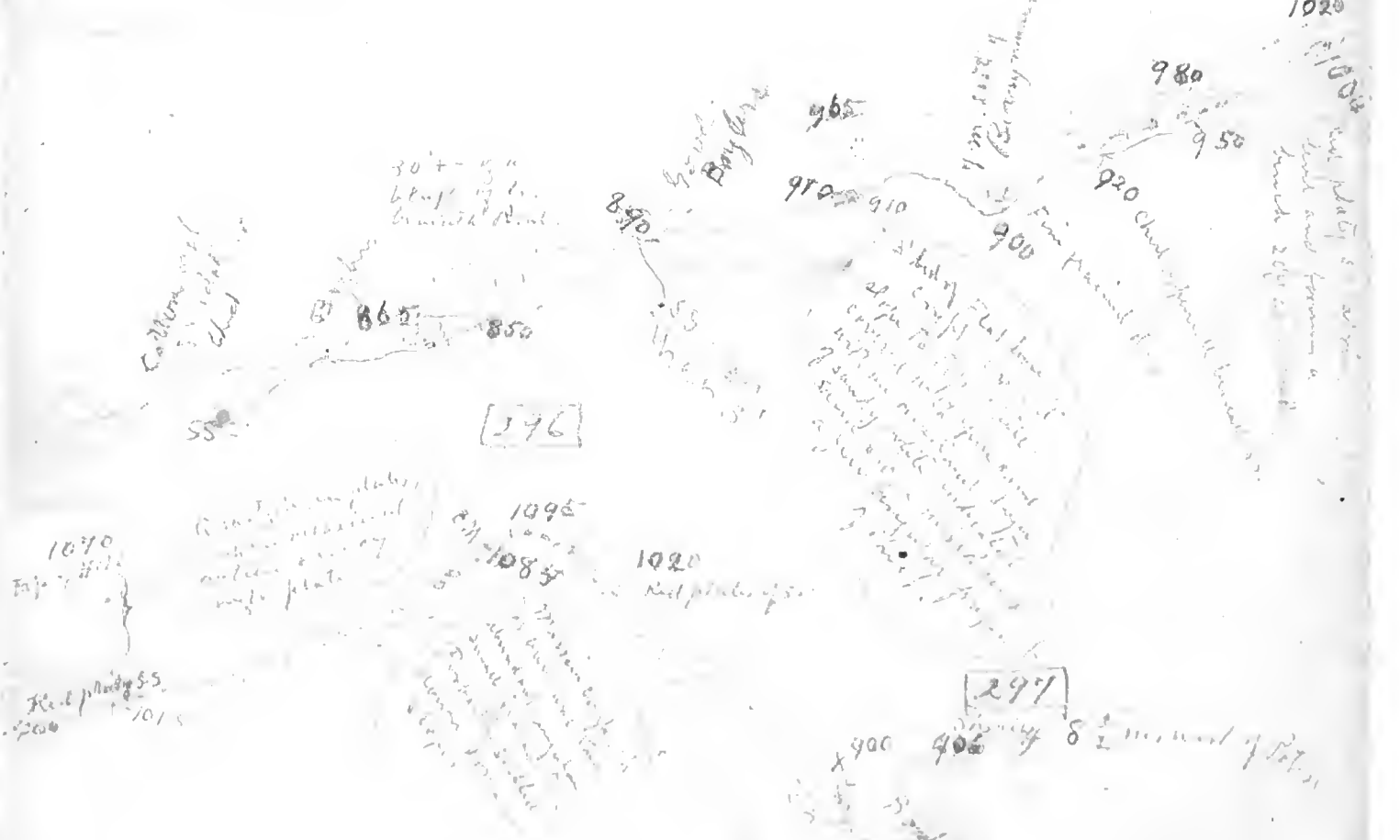
Aug. 24, 1906.



7 - Studeville to Potosi (Berryman to Potosi - Aug 25)



294. The chert at this point though unquestionable
 Bent, has a shaly look, a part of it clearly
 low of suggests Boylers but most of it is a small
 bedded congl. Between 770 and 800 large congl.
 that blocks occur locally in considerable abundance. Between
 800 - 820 the flat chert, & not very well characterized
 stringy cherts come in. This former contains some fossils.
 (Small forms) but more important are an Orthis and
Emicrinia dol. fossils in 294b.
 Illaenus & other trilobites probably at east or north
 of Fredericktown. The same trilobites occur here in a
 massive, shaly white chert just like those found at
 a place to the west. No typical Potosi drusy occurs here.
 That horizon is beneath beds exposed.

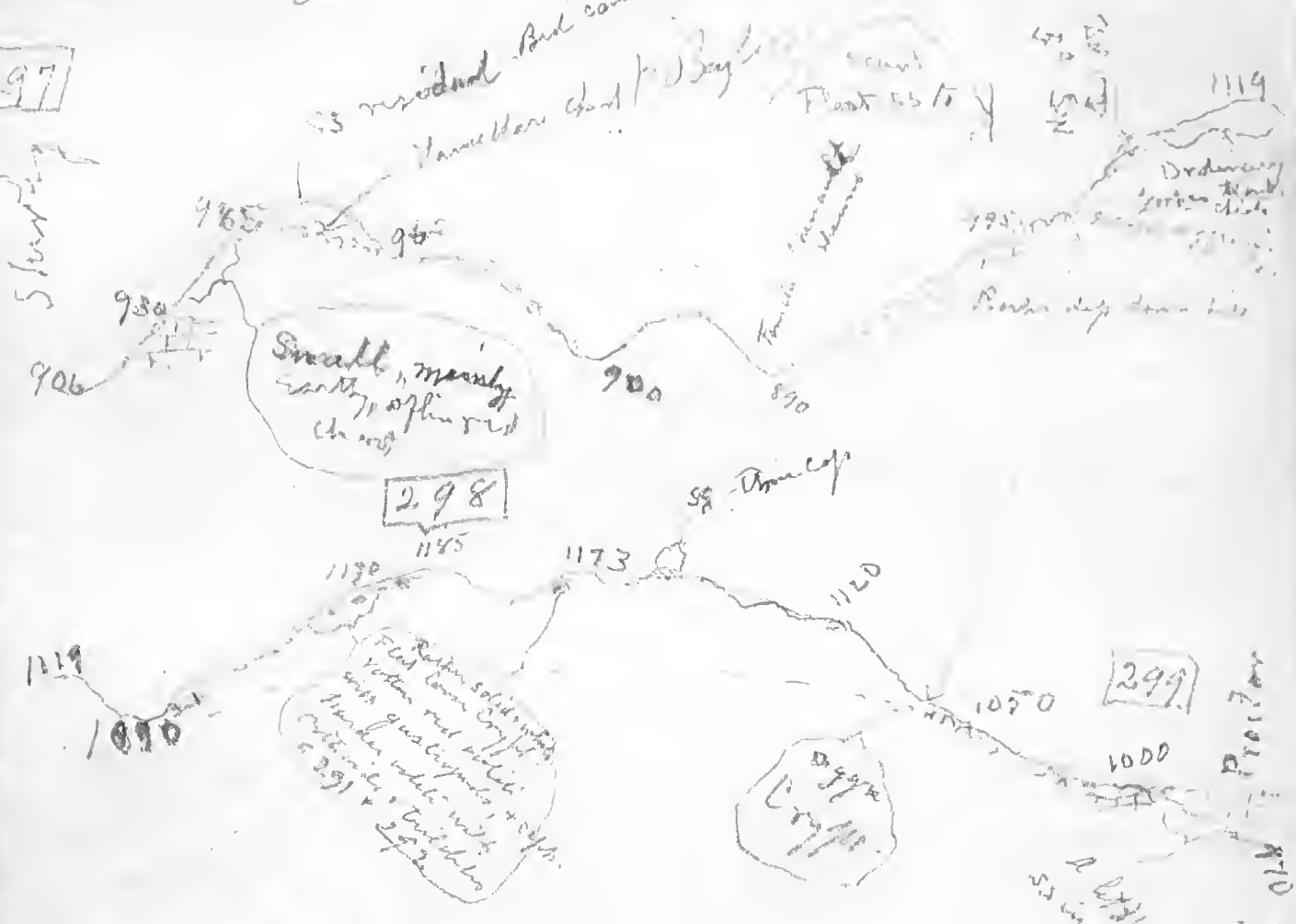


Add 240 to all
 from Studeville to
 and to creek to Potosi

Steelville to Potosi cont.

297

Stairway



1000 (20 ft. high)
(1000 ft.)

Quartz in bed of Potosi bed to near 1000 ft. level

301

Potosi 904

Dot gray granule
 with a sandy feel,
 more or less cherty, and
 carrying small chert gray to greenish blue
 internally; often porous,
 granular on exterior, in
 very irregular, often large,
 honey combed masses.

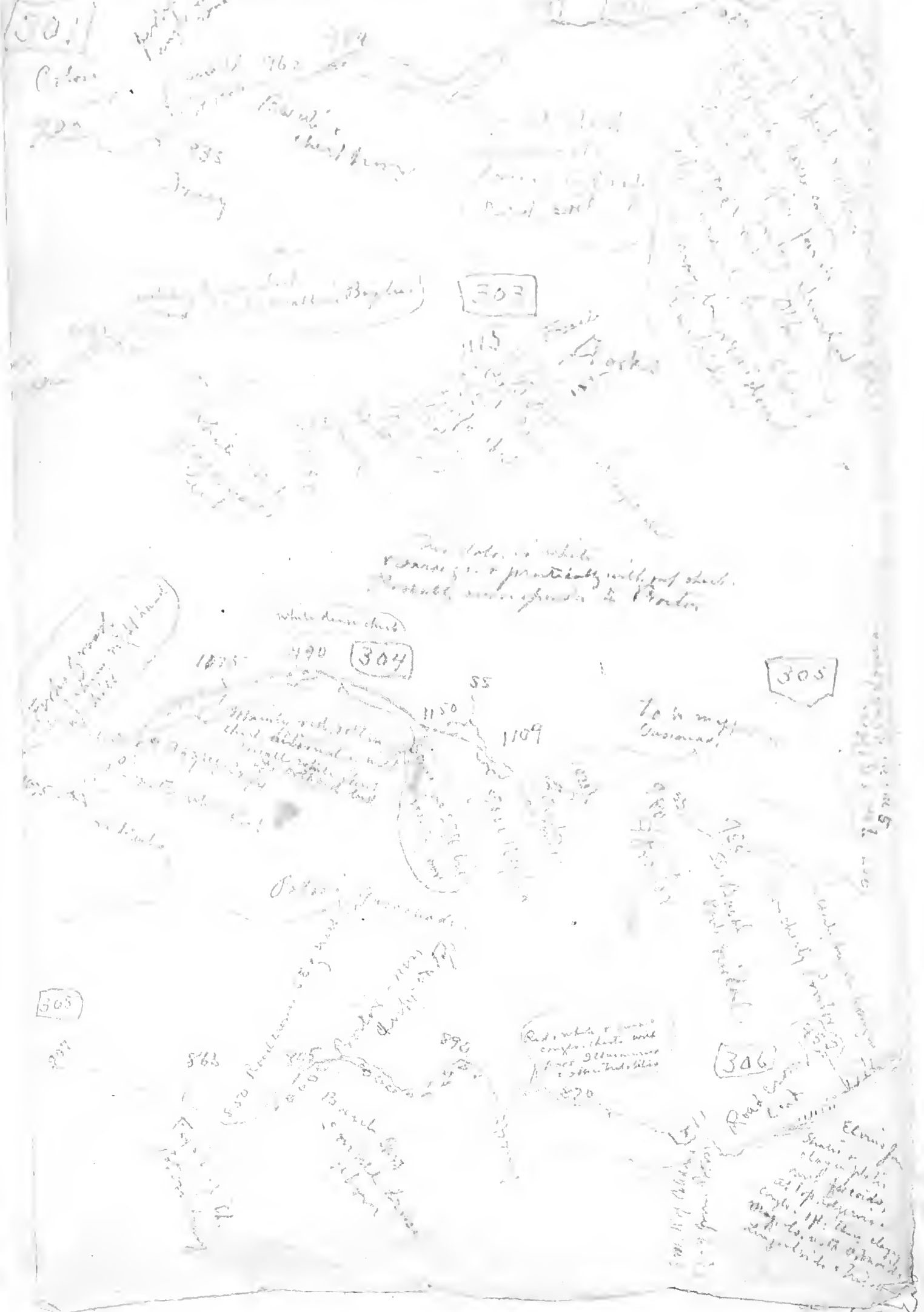
300

850

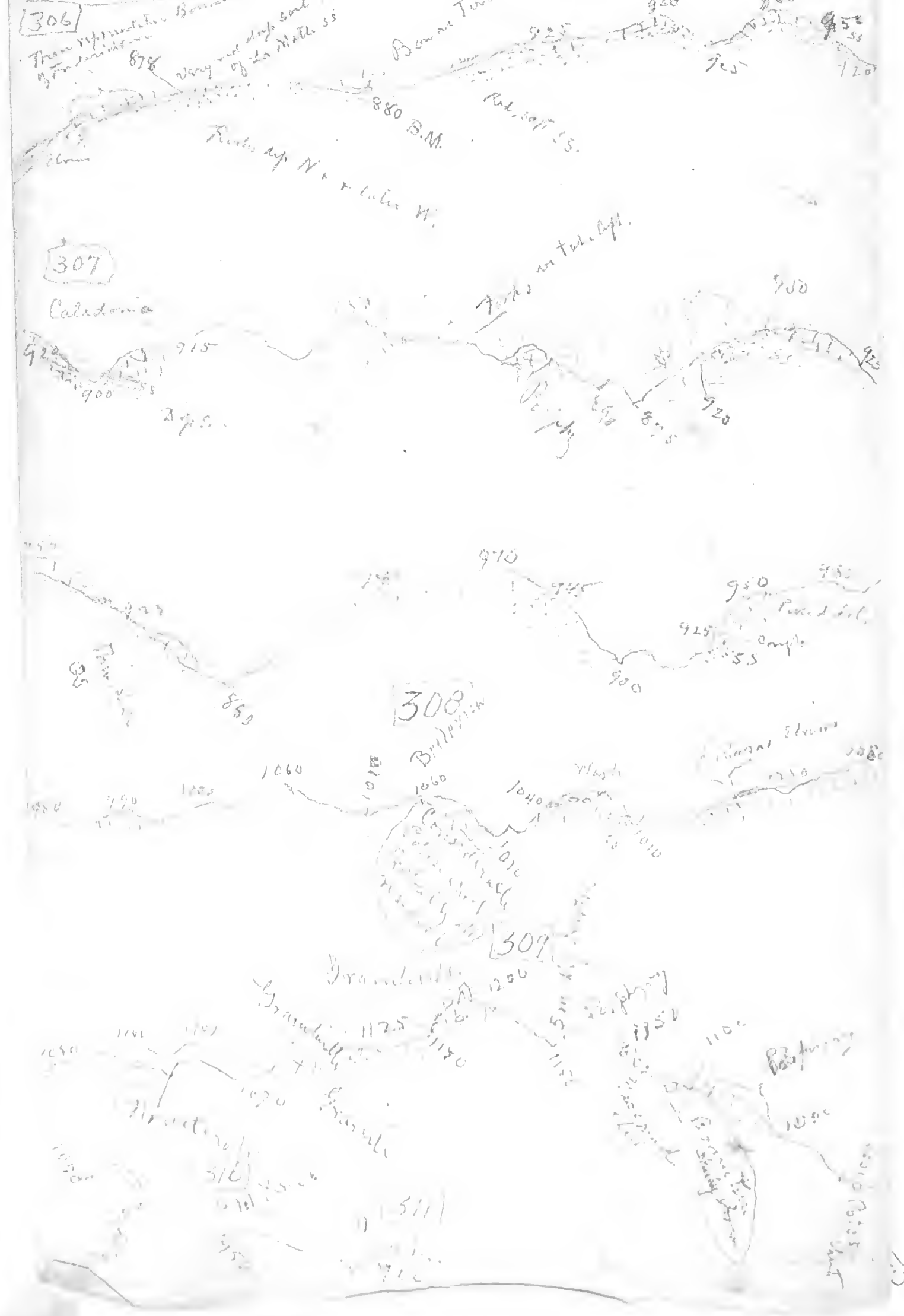
Bluff of cream to
 pinkish gray granular
 chert, full of small
 white, higher quartz
 interstratified
 plates of quartz.

Special Potosi
 being on bluffs,
 narrow bed and in
 residual clay soil
 along.

Colson to Drummond

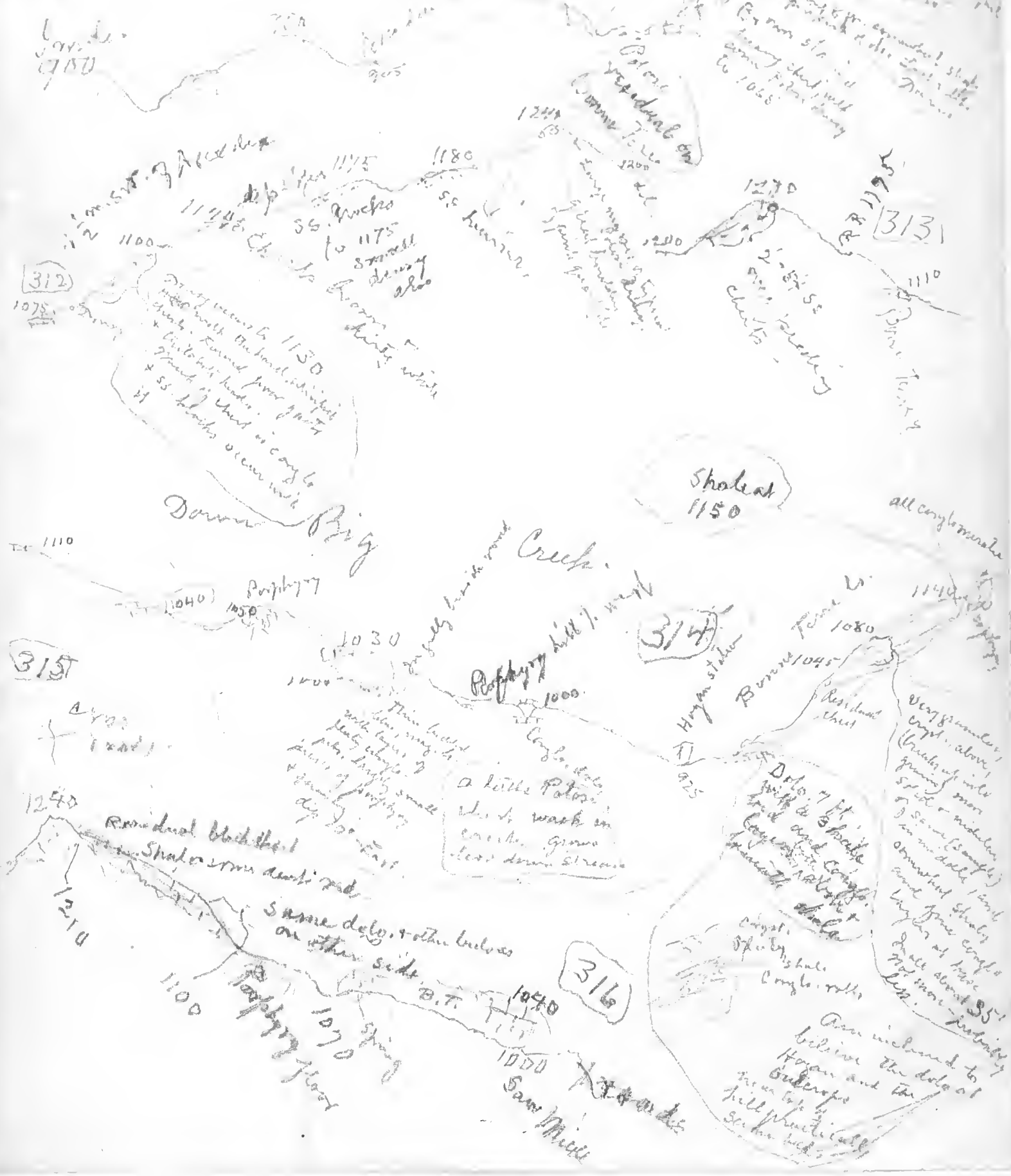


Colson to Drummond 2



Fronton to Hogan
May 27, 1903.

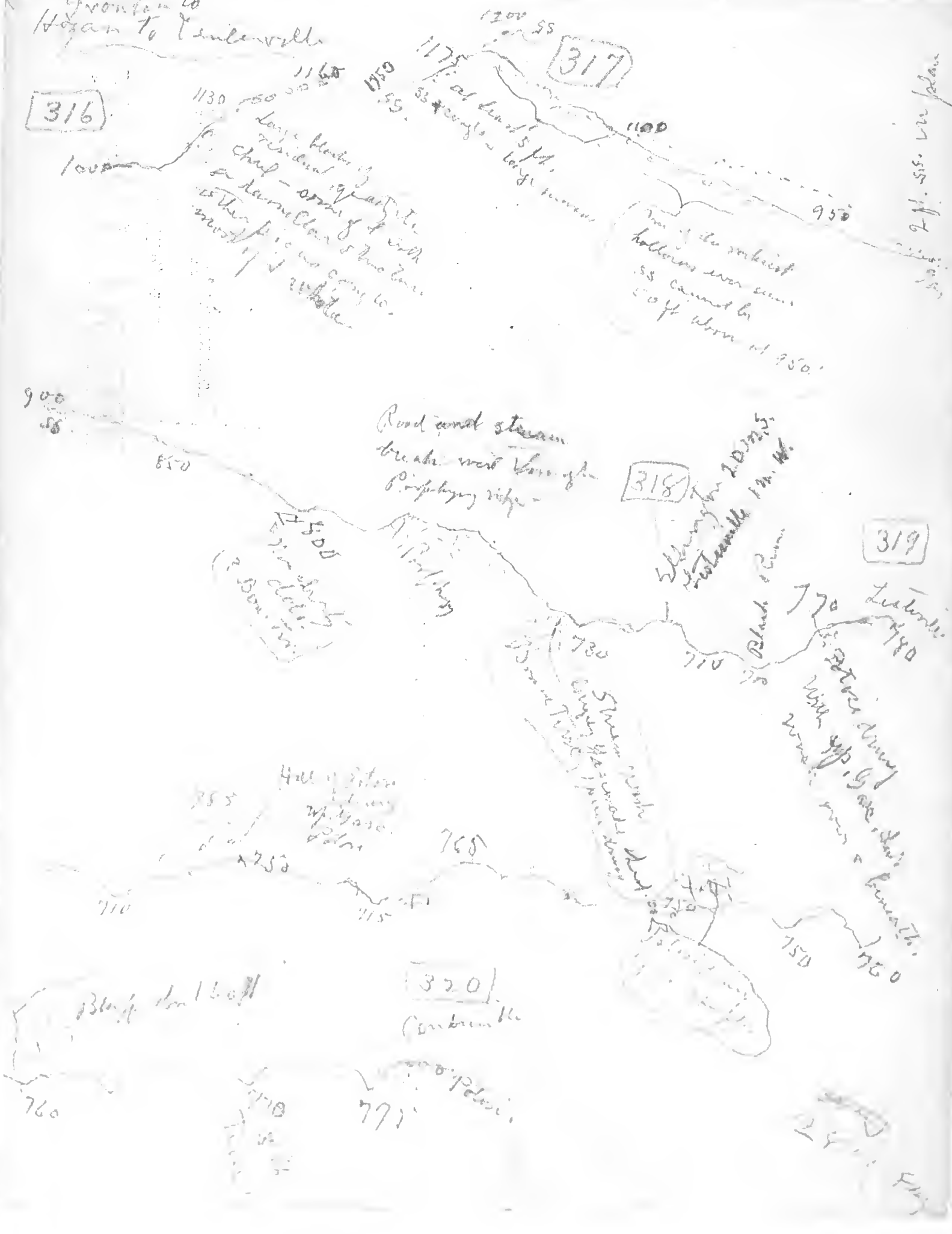
[311]



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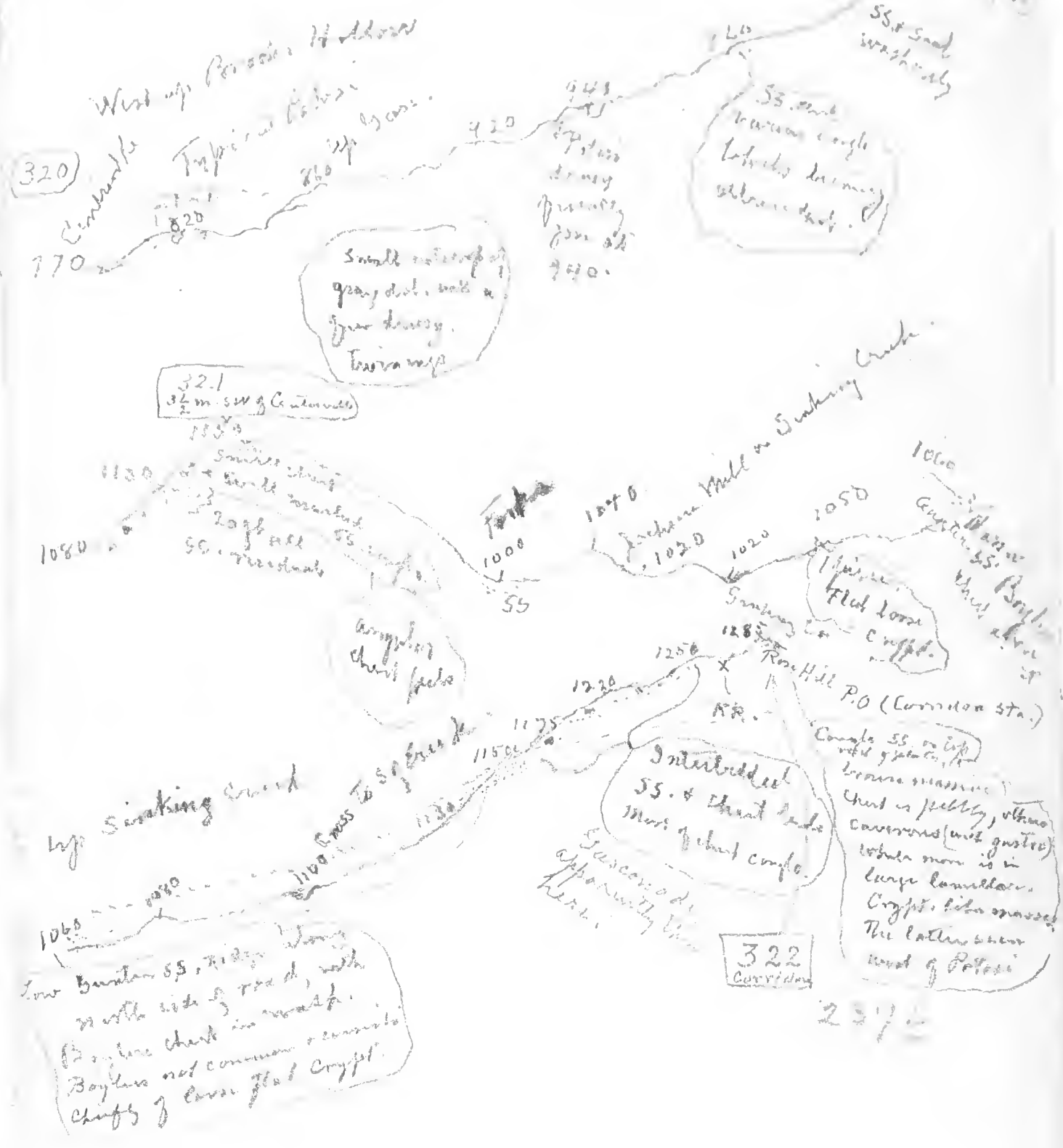
Fronton to
Hogan to Yuleville

[316]



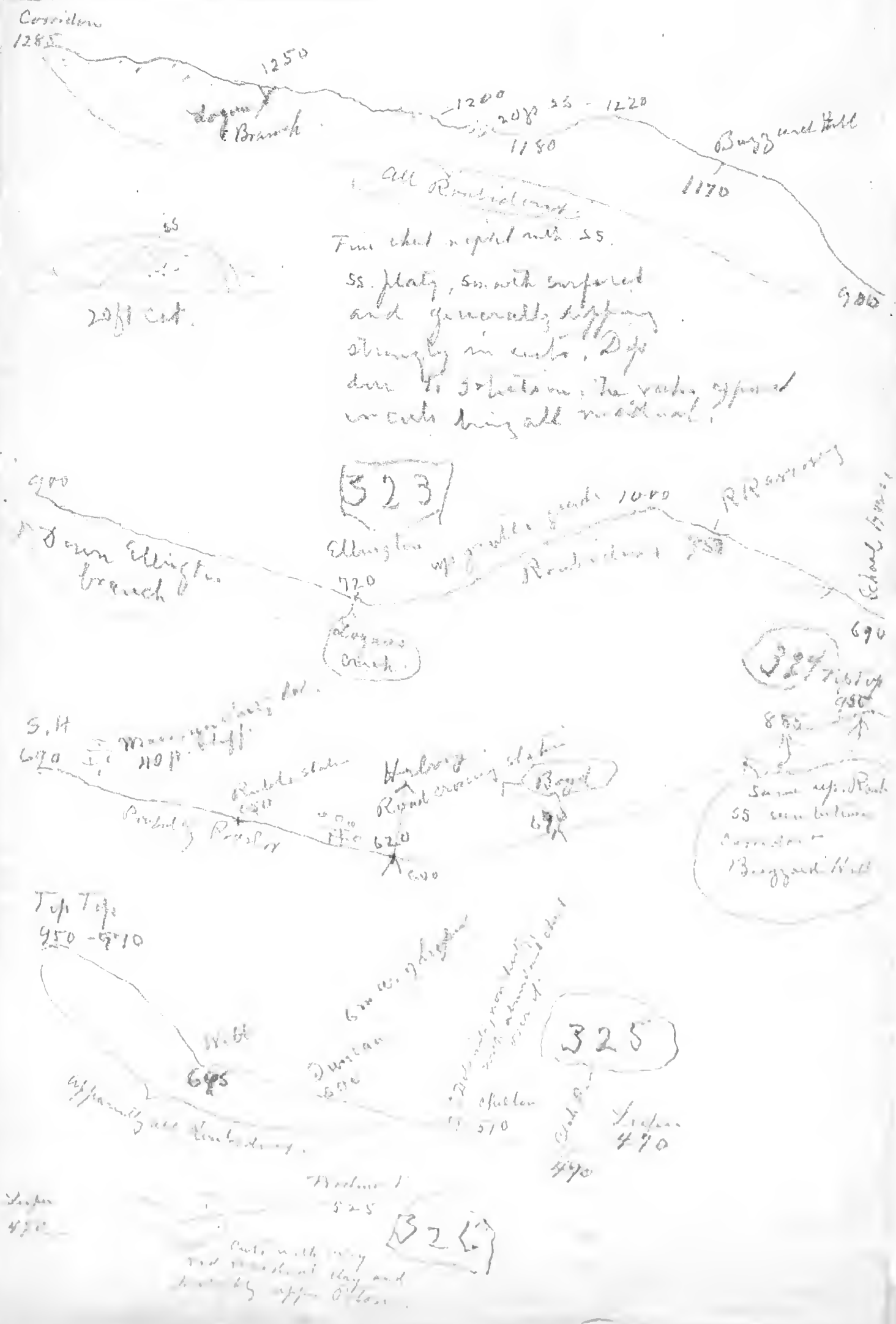
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Corridon SW to Rose Hill P.O. on Mo. South R.R.
Aug. 28 - A.M.



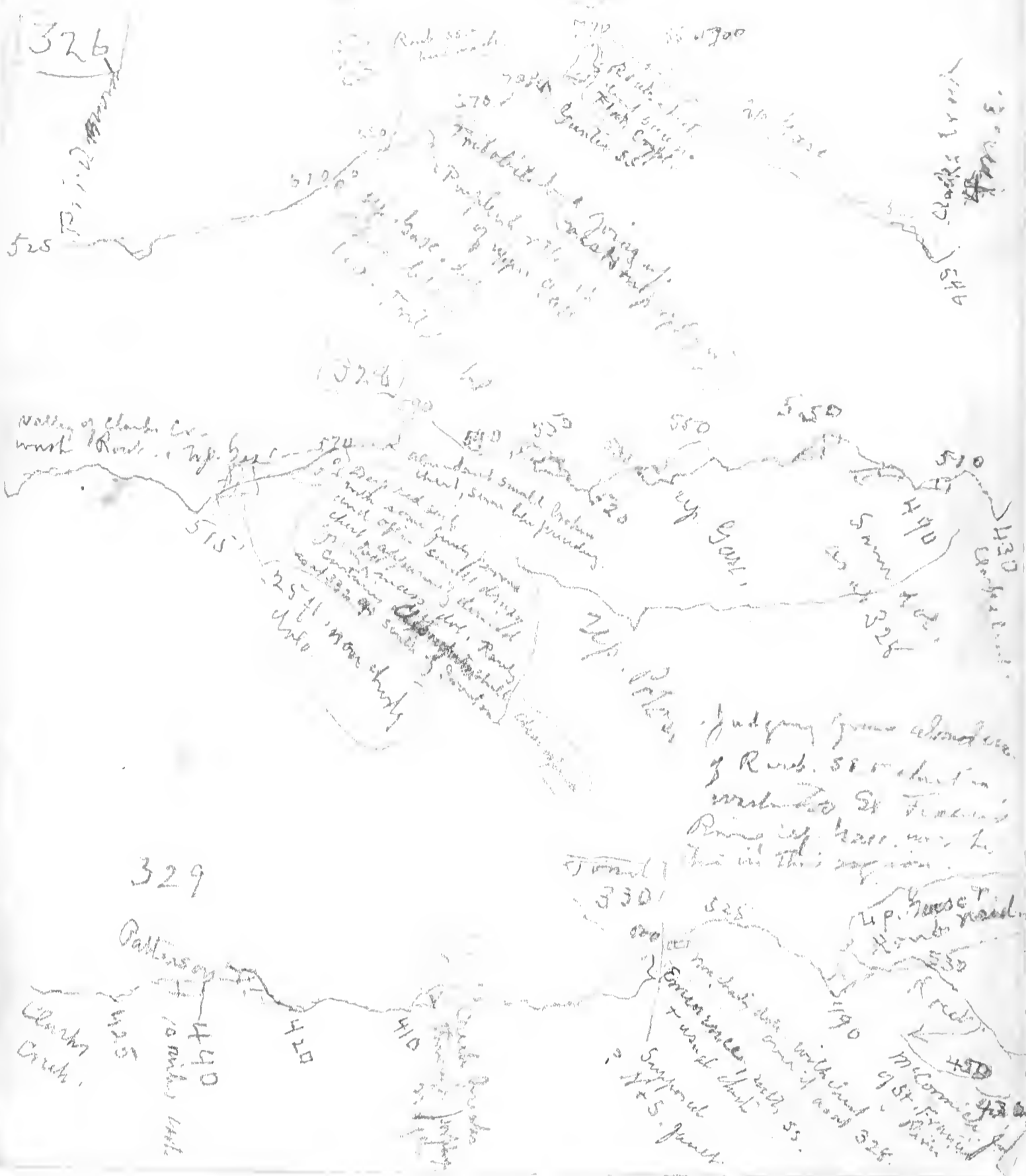
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Aug. 28, 1926 - P.M.
Corridon or Rose Hill to Looper.



1) Piedmont to Lutesville - Aug 29th 1904
(to St. Francis Run)

327



2) Piedmont to Lutesville 2 miles
(St. Francis Run to)





Platy, 2000 or less laminae and visible and considerable lengths, mainly white cherts, with several ft. of blue beds of nodules, slightly congl. ss. Two fossils the large whorled Homotrypa and a low spiral shell. Take if to be Jeff.

Fossils consist of some gastropods & brachiopods. Plectambonites plates. A small, brachiopod type of form, rounded about around with a thick, mammary congl. + less common other congl. Obtain some of many small crinoids in places where chert common.

2379



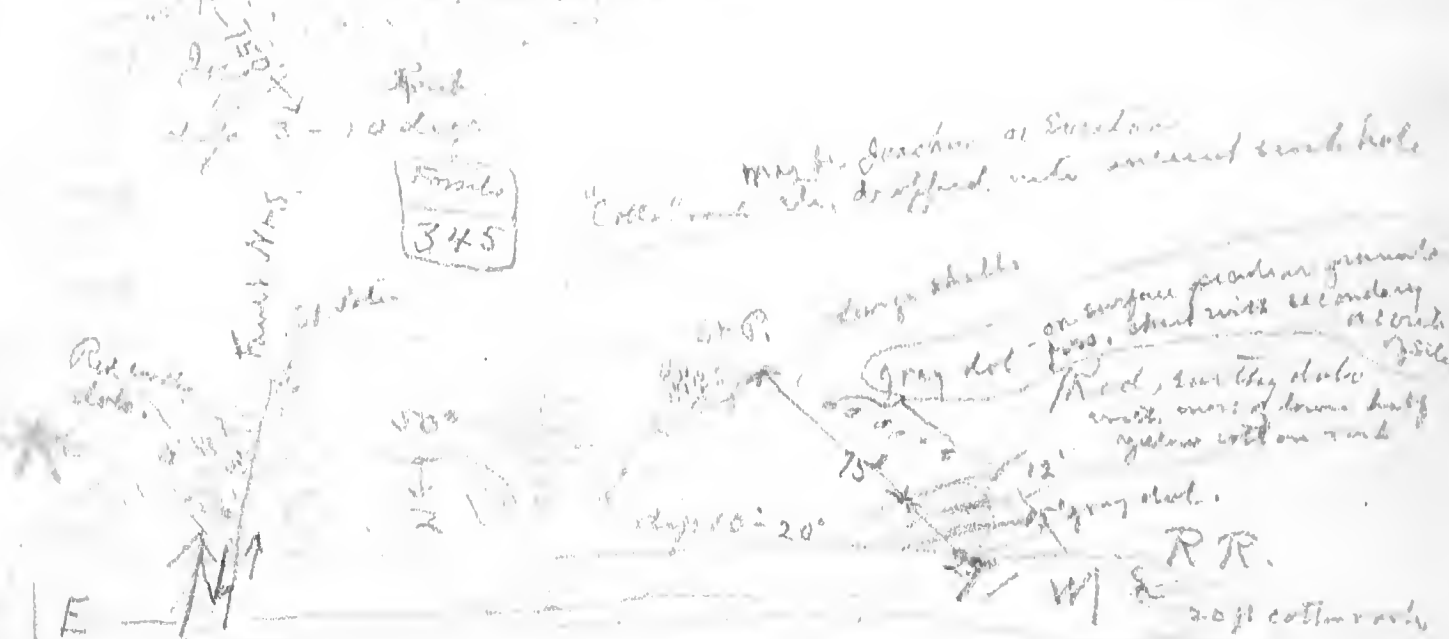
These upper Roubidoux cherts remind some of Jeff. cherts of west side of Dymally (not Jeff. of east) but congl. are abundant.

Roubidoux seems to include beds at top not represented at and west of Rolla. These are beneath the Bolin and are there represented by Pabbly druse etc.

Bolin ss. in vicinity of Ludlowville may be 100 ft. or more, and is generally thin & shaly.

5 - Pindar to Lutesville Aug 30 1906

Lutesville
dips east at Lutesville bringing Jeff on



Broken ground contains masses of *Ruminantia* ls.,
 Ferrucine ls., Platina ls., hard, platy *laminis*, (?) *laminis* type
 of *Maquoketa* shale, blocks of massive and platy St. Peter,
 and Mississippian *crinoidal* chert. Also a boulder made
 up of 4 or 5 partly separate 4-6" Jeff. Cryptozoa
 Fault passes northward through Marble Hill -
 Structure south of Lutesville.

Cherts in the Jeff. are both like with a beginning, or
 gray to red and generally porous, with the
 outer surface and large cavities showing small
 nearly acicular of secondary silification.
 On whole cherts much less than in *Roubidoux*
 and outcrops of *laminis* much more common.
 Jeff. City ls. exposed in vicinity of Lutesville estimated at not less than
 150 ft.

1. Lutesville to Cape Girardeau Aug. 31 Fossils 1 m. N. of N.P.
 (346) 495 500

- (A) Ferrucine,
- 2. Kennesawick, Platina, *Maquoketa*, St. Peter 720
- 34 Mississippian *crinoidal* ls. + *laminis*
- 4 *laminis*

42
 (A)
 m. E
 710

41

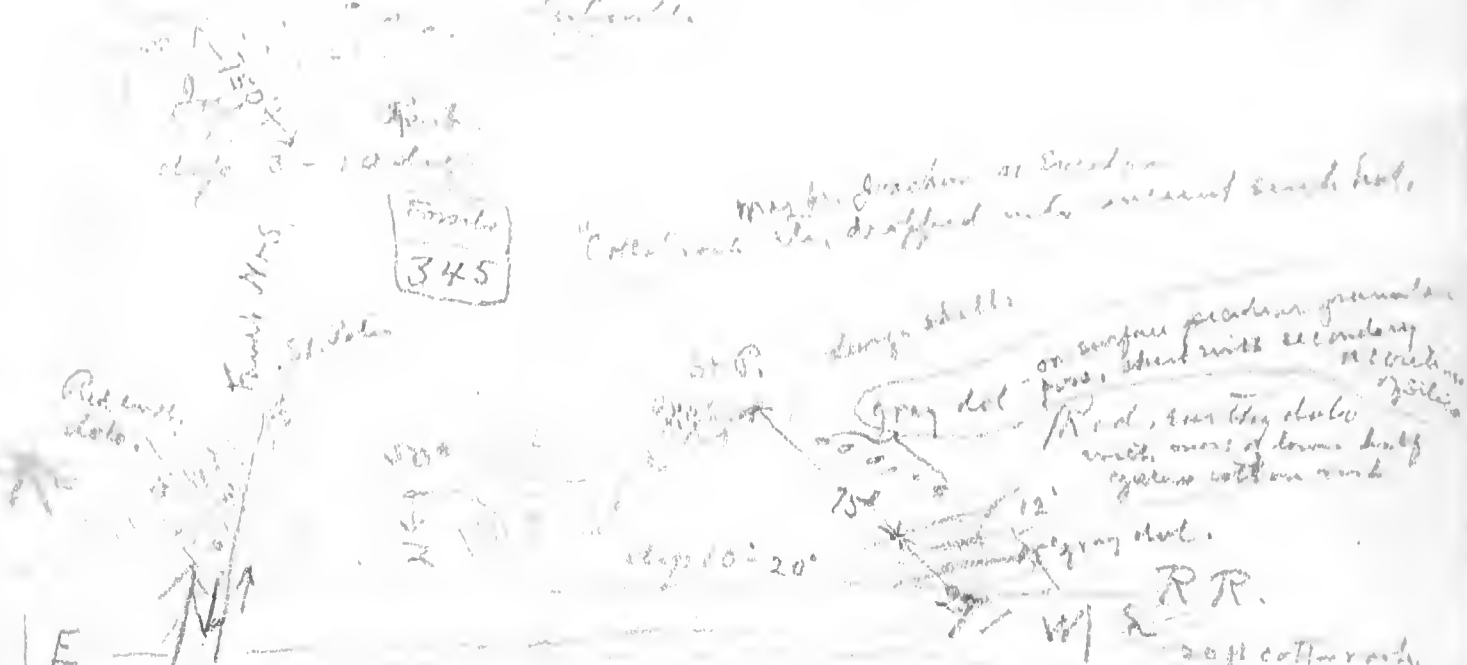
Farmville,

New Brunswick, Pitt River, Maguaduct, St. Peter

Mississippi, Concord, N. H., & Upper

Canada.

5 - Road to Lutesville
Lutesville
Aug 30 1906



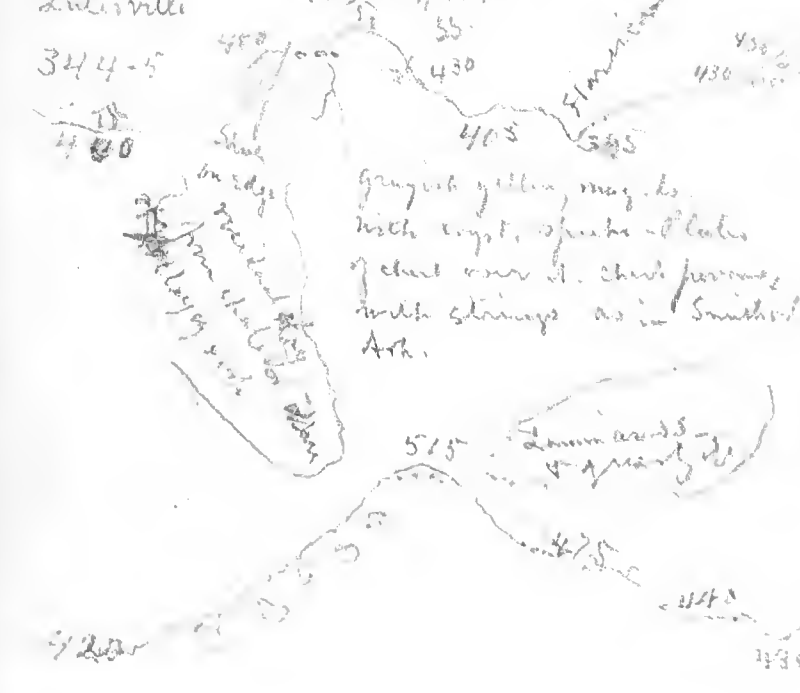
Broken ground containing masses of Kennesaw sh. ls., Ferris ls., Platteville ls., hard, platy laminae, (?) living type of Magnatula shale, blocks of massive and platy St. Peter, and Mississippian crinoidal chert. Also a boulder made up of 4 or 5 partly separate 4-6 inch Jeff. Cryptozoa. Fault passes northward through Marble Hill.

Structure south of Lutesville

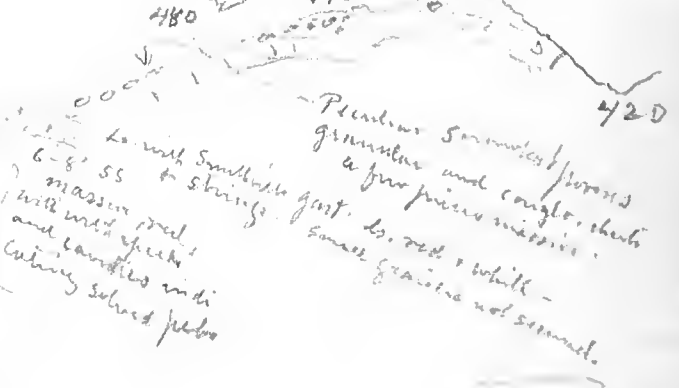
Cherts in this Jeff. are all the more ~~the~~ gray to red and generally porous, with the outer surface and lower surfaces showing small warty accretions of secondary silicification. On whole cherts much less than on Houbert and outcrop of limestone much more common. Jeff. City ls. exposed in vicinity of Lutesville estimated at not less than 150 ft.

1. Lutesville To Cape Girardeau

Aug 30. Road to east - 440-495
Lutesville 344-5
440



Aug 31 Fossils 346
495
480



More cherts with sponges toward E.
(Compare fossils also with Jeff. City)



415
440
450
470
480
490
495
515
570
600
620
640
650
660
670
680
690
700
710
720
730
740
750
760
770
780
790
800
810
820
830
840
850
860
870
880
890
900
910
920
930
940
950
960
970
980
990
1000



Cont. section on page

3) Lutesville to Cape Girardeau
Jackson to "



Aug 31, 1906

(Probably started over 100 ft low at Lutesville)

(680 miles continuous section this month)

Continous section from Station 274 Cape Girardeau to Station 354 St. Louis = 180 miles
1835 39. W

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don Sta.) 28

Brick house near Cane Creek = Loc.351 36

Brooks Hollow, west up toward Centerville =
Loc.320 28

Buckley E.R. - farm of, northeast of Rolla . . 7-9
hill north of home of =

Loc.274 - Rolla to Steelville 13

Burfordville, near Whitewater River = Loc.350 . 36

Buzzard Hill, at Loc.322 (Rose Hill or Corridon
to Leeper) 29

Caledonia, 5 miles north of = Loc.305 (Potosi to Ironton)	24
Cane Creek, large brick house near = Loc.351	36
Cape Girardeau:	
Lutesville to = Locs.334-354	34-37
$6\frac{1}{2}$ miles from = Loc.353	37
$3\frac{3}{4}$ miles from = Loc.354	37
Carboniferous:	
in sketch of north slope near School of Mines, Rolla	11
in sketch, Rolla to Steelville	14
Castor River, near = Loc.336	32
Centerville - Ironton to Hogan, to = Locs.316-320	27
= Loc.320	27
$3\frac{1}{2}$ miles SW. of = Loc.321	28
to Rose Hill P.O. on Mo.S.R.R. = Locs.320-322	28
Cherry Valley spur, railroad crossing at - Patsey P.O., 6 miles E. of Steelville = Loc.288	18
Chilton, near Loc.325 (Leeper)	29
Clarks Creek, between Locs.327,328 (4 miles E. of Piedmont)	30
Clays at Versailles in Lincoln R.k.cut and at Fristoe - compare with clays NW. of Rolla - on Dr. Buckley's farm	7
Clubb P.O., 5 miles E. of Bounds = Loc.334	32
Clubb, 1 mile NE. of = Loc.335	32
Cole Camp or Bolin ss. - in section	3
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Corridon Station - Rose Hill P.O. = Loc.322 . . .	28
Corridon or Rose Hill to Leeper = Locs.322- 325	29
Cotaway Fourche a Courrois Creek at Loc.293 (Berryman to Potosi)	21
Cotaway Creek, at Loc.293(Berryman to Potosi) .	20
Courrois Creek, Cotaway Fourche a - Loc.293, (Berryman to Potosi)	21
Cryptozoan, Jefferson - at Loc.335(south of Lutesville)	35
Dillon = Loc.276 (Rolla to Steelville) . . .	13
2 miles east of = Loc.277	13
Dry Creek, section in bluff on - Steelville to Potosi (+ slip 4, under side).	19
Duncan, between Locs.324,325 (Tiptop to Leeper)	29
Ellington, 20 miles south of = Loc.318 . . .	27
Ellington = Loc.323	29
Elvins, basal at Loc.308 (Bellevue - Potosi to Ironton)	25
Elvins formation at Loc.306 (3 miles north of Caledonia - Potosi to Ironton)	24
Eminence fossils at Loc.294 (up Lost Creek - Steelville to Potosi)	21
Everton of Marion County series - thickness of	2
Fernvale ls. at Loc.335 (south of Lutesville) .	34
Fourche Chenault near Loc.298 (Steelville to Potosi)	22
Fredericktown - trilobites procured east and north of at Loc.294 (up Lost Creek, Steel- ville to Potosi)	21
Fristoe and Lincoln cut at Versailles - clay at - compare with clay on Dr. Buckley's farm, northwest of Rolla	7

Gasconade and Meramec rivers - in description of Dr. Buckley's farm	7
Gasconade, Roubidoux, and Jefferson - section of	3
Gasconade:	
of Niangua chert group or series - thickness of	2
at Locs.309,310 (Graniteville and Pilot Knob)	25
at Locs.326-333 (Piedmont to Bounds)	30,31
Graniteville = Loc. 309	25
Grassy P.O., 10 miles west of Marble Hill = Loc.340	33
Gravel Hill, 1 mile northeast of = Loc.349 .	36
Greenville - between Locs.334,335(Clubb P.O.)	32
Gunter ss.:	
at Loc.291 (Huzzah Creek, mouth of Dry Creek,10 miles east of Steelville)	20
at Loc.295 (up Lost Creek - Berryman tp Potosi)	21
in section	3
at Loc.327 (2 miles east of Piedmont)	30
at Loc.289 (Steelville to Potosi) . .	19
Hill north of Buckley's house = Loc.274 (Rolla to Steelville)	13
Hog Creek, Husky P.O. on = Loc.348	35
Hogan Station = Loc.314	26
Hogan, Ironton to, to Centerville = Locs.316- 320	27
Hollows, one of the rockiest ever seen = Loc.317 (Ironton to Hogan,to Centerville)	27
Hurricane Creek at Loc.335 (south of Lutes- ville)	35
Husky P.O., on Hog Creek = Loc.348	35

Figure 1.

LEGENDS FOR TWO PLACES SHOWING UNCONFORMITY

Ste. Genevieve unconformity.
Plate 1.

Husky to Jackson = Locs.348-352	36
Huzzah Creek, mouth of Dry Creek, 10 miles east of Steelville = Loc.291	20
Huzzah Creek to Berryman, 20 miles west of Potosi = Loc.292	20
Iron ore bank, Meramec = Loc.281	15
Iron prospect - Rolla to Steelville - near Loc.276	13
Ironton = Loc.311	25
Ironton to Hogan	26
Ironton to Hogan, to Centerville = Locs.316- 320	27
Itinerary of Ozark trip	1
Jackson = Loc.352	36
Jackson, Husky to = Locs.348-352	36
Jefferson, basal, at Loc.277(Rolla to Steel- ville)	13
Jefferson at Loc.344 (Lutesville)	34
Jefferson cryptozoan at Loc.335 (south of Lutesville)	35
Jefferson, Roubidoux, and Gasconade - section of	3
Jefferson of Niangua chert group or series - thickness of	2
Jefferson cotton rock in sketch of north slope near School of Mines, Rolla	11
Kaolin deposit at Loc.352 (Jackson)	37
Kimmswick ls.:	
at Loc.335 (south of Lutesville)	34
near Loc.352 (Jackson)	37
La Motte ss.:	
mentioned	2
near Loc.306 (Potosi to Ironton)	25
Leeper - Rose Hill or Corridon to = Locs.322- 325	29
Leeper = Loc.325	29

23. View of the left side of a well-preserved but rather

Lesterville = Loc.319 27

Localities:

- 274 - hill north of Buckley house -
Rolla to Steelville 13
- 277 - 2 miles east of Dillon 13
- 276 - Dillon - Rolla to Steelville 13
- 278 - St. James - Rolla to Steelville 14
- 279 - 1 mile south of St. James 14
- 280 - Big Dry Fork, 3 miles south of
St. James 14
- 281 - Meramec iron ore bank - Rolla to
Meramec Springs 15
- 282 - Meramec Springs Hotel 15
- 285 - 3 miles west of Steelville - Rolla
to Steelville 15
- 286 - first hill west of Steelville on
Meramec Springs road 16
- 287 - Rocky Hollow - Steelville to Potosi 18
- 288 - R.R.crossing, Cherry Valley spur,
6 miles east of Steelville, Patsey
P.O. - Steelville to Potosi 18
- 291 - Hill going east down Huzzah Creek,
mouth of Dry Creek, 10 miles east
of Steelville 20
- 292 - Huzzah Creek to Berryman, 20 miles
west of Potosi 20
- 293 - 2/3 mile west of Cotaway Creek 20
- 294 - Up Lost Creek - Steelville to
Potosi 21
- 295 - Up Lost Creek - Berryman to
Potosi 21
- 297 - 8 miles west of Potosi - Steelville
to Potosi 21
- 299 - Spring 3 miles west of Potosi 22
- 300 - Potosi 22
- 301-311 - Potosi to Ironton 24
- 306 - 3 miles north of Caledonia, 8 miles
from Potosi 24

differences between the three sequences are such as were natural

Localities:

308 - Belleview (Potosi to Ironton)	25
309 - Graniteville	25
310 - Pilot Knob	25
311 - Ironton	25
312 - 3½ miles southwest of Arcadia	26
313 - down Big Creek	26
314 - Hogan Station	26
316 - Cross roads near saw mill	26
316-320 - Ironton to Hogan, to Centerville	27
317 - rockiest hollow ever seen	27
318 - 20 miles south of Ellington	27
319 - Lesterville	27
320 - Centerville	27
321 - 3½ miles southwest of Centerville	28
322-325 - Rose Hill or Corridon to Leener	29
323 - Ellington	29
324 - Tiptop	29
325 - Leeper	29
326-345 - Piedmont to Lutesville	30-34
326 - Piedmont to St. Francis River	30
327, 328 - east of Piedmont	30
329 - Patterson	30
330 - near McCormick ford of St. Francis River	30
333 - 1½ miles east of Bounds	31
334 - Clubb P.O., 5 miles east of Bounds	31
335 - 1 mile northeast of Clubb	32
336 - near Castor River	32
338 - southeast on Marble Hill road	33
339 - near store, 11 miles west of Marble Hill	33
340 - Grassy P.O., 10 miles west of Marble Hill	33
342 - 4½ miles west of Marble Hill	33
338-344 - Piedmont to Lutesville	33
343 - 2½ miles west of Lutesville	33
344 - Lutesville	33

Localities:

348 - Husky P.O. on Hog Creek	35
350 - Burfordville, near Whitewater River	36
352 - Jackson	36
353 - $6\frac{1}{2}$ miles from Cape Girardeau	37
354 - $3\frac{3}{4}$ miles from Cape Girardeau	37
Logan Branch at Loc.322	29
Logan Creek at Loc.323 (Ellington)	29
Lost Creek, up = Loc.294 (Steelville to Potosi)	21
Lutesville: Piedmont to = Locs.326-345	30-34
$2\frac{1}{2}$ miles west of = Loc.343	33
= Loc.343	33
to Cape Girardeau = Locs.334-354	34-37
McCormick ford of St. Francis River = Loc.330	30
Maquoketa shale at Loc.335 (south of Lutesville)	34
Marble Hill: 20 miles west of = Loc.336	32
SE. on road = Loc.338	33
11 miles W. of = Loc.339	33
$4\frac{1}{2}$ miles west of = Loc.342	33
Masses, sandstone, near Rolla - may be of Penn- sylvanian or Mississippian age	11
Meramec and Gasconade rivers - in description of Dr. Buckley's farm	7
Meramec iron ore bank = Loc.281 (Rolla to Mera- mec Springs)	15
Meramec River (Rolla to Meramec Springs) = Loc. 282	15
Meramec Springs - Rolla to Steelville via	13-17
Meramec Springs chert, top of - at Loc.284 (Rolla to Steelville)	15
Meramec Springs fossil horizon - at Locs.285, 286 (Rolla to Steelville)	16
Meramec Springs horizon 40-50 feet above ls. at Loc.292 (Kuzzah Creek to Berryman, 20 miles W. of Potosi)	20
Meramec Springs Hotel = Loc.281 (Rolla to Meramec Springs)	15

Mississippian or Pennsylvanian age - sandstone masses near Rolla may be of	11
Mississippian crinoidal chert at Loc.335 (south of Lutesville)	35
Niangua chert group or series - Jefferson, Roubidoux, and Gasconade - thicknesses of . . .	2
Ozark region - action of Committee on Geologic Names - list of names by Miss Wilmarth	front cover
Ozark trip - itinerary of	1
Patsey P.O., 6 miles east of Steelville, railroad crossing at Cherry Valley spur = Loc.288 . . .	18
Patterson = Loc.329 (Piedmont to Bounds)	30
Pennsylvanian or Mississippian age - sandstone masses near Rolla may be of	11
Piedmont to Lutesville = Locs.326-345	30-34
Piedmont = Loc.326	30
Possum Creek - near Locs.343,344 (vicinity of Lutesville)	33
Potosi: Steelville to - sketches	18- 22
20 miles west of = Loc.292 (Huzzah Creek to Berryman)	20
= Loc.300 (Steelville to Potosi)	22
to Ironton = Locs.301-311	24
Potosi chert:	
at Loc.308 (Bellevue, Potosi to Ironton)	25
between Locs.309,310 (Graniteville and Pilot Knob)	25
drusy at Locs.316-320 (Ironton to Hogan, to Centerville)	27
upper, at Loc.328 (east of Piedmont)	30
Potosi group or series - mentioned	2
Pilot Knob = Loc.310	25
Plattin ls. at Loc.335 (south of Lutesville)	34
Plattin or Black River near Loc.352 (Jackson)	37

PROCTOR IS.:

in section	3
in section at Loc.291 (Huzzah Creek, mouth of Dry Creek, 10 miles east of Steelville)	20
at Loc.295 (up Lost Creek, Berryman to Potosi)	21
at Loc.299 (spring 3 miles west of Potosi)	22
at Loc.305 (5 miles north of Caledonia, Potosi to Ironton)	24
Reefs - probably Mississippian or Pennsylvanian accumulation - sketch of in description of Dr. Buckley's farm	7
Rocky Hollow = Loc.287 (Steelville to Potosi)	18
Rocky hollow (one of the rockiest ever seen) = Loc.317 (Ironton to Hogan, to Centerville)	27
Rolla to Steelville, via Meramec Springs . .	13-17
Rolla - Dr. Buckley's home northeast of de- scribed	7-9
Rolla - sketch and description of north slope of ridge just north of School of Mines . .	11
Rose Hill or Corridon to Leeper = Locs.322-325	29
Rose Hill P.O. (Corridon Sta.) = Loc.322 . . .	28
Rose Hill P.O., Centerville to, on Mo.S.R.R. = Locs. 320-322	28
Roubidoux:	
in description of Dr. Buckley's farm .	7
in sketch of north slope near School of Mines, Rolla	11
at Loc.277 (Rolla to Steelville) . .	13
near Loc.278	14
at Loc.280 (Big Dry Fork, 3 miles south of St. James)	14
at Loc.286 (first hill west of Steel- ville, Steelville to Potosi)	18

Roubidoux:

at Loc.291 (Huzzah Creek, mouth of Dry Creek, 10 miles east of Steelville) .	20
at Loc.294 (up Lost Creek, Steelville to Potosi)	21
at Loc.298 (near Fourches a Chenault, Steelville to Potosi)	22
at Loc.302 (Potosi to Ironton)	24
at Locs.322-325 (Corridon or Rose Hill to Leeper)	29
at Locs.326-333 (Piedmont to Bounds)	30,31
at Locs.338-344 (Piedmont to Lutes- ville)	33
at Loc.344 (Lutesville)	34
Roubidoux of Niangua chert group or series - thickness of	2
Roubidoux, Jefferson, and Gasconade - section of,	3
Ruble Station between Locs.323,324 (Ellington to Tiptop)	29
St. Charles Hotel, Cape Girardeau - near Loc.354	37
St. Francis series - mentioned	2
St. Francis River, Piedmont to = Loc.326	30
St. Francis River, McCormick ford of = Loc.330,	30
St. James = Loc.278 (Rolla to Steelville)	14
St. James, Big Dry Fork 3 miles south of = Loc.280 (Rolla to Steelville)	14
St. James, 1 mile south of = Loc.279	14
St. Peter: in Marion County series - thickness of	2
at Loc.335 (south of Lutesville)	34
at Loc.351 (brick house near Cane Creek)	36
Sandstone masses near Rolla may be of Pennsyl- vanian or Mississippian age	11
School of Mines, Rolla - sketch and description of north slope of ridge just north of	11

Schoolhouse between Locs.323,324 (Ellington to Tiptop)	29
Saw mill - cross roads near = Loc.316	26
Section in bluff on Dry Creek, near mouth (Steelville to Potosi) (slip 4, under side) . .	19
Section given at Loc.291 (Huzzah Creek, mouth of Dry Creek, 10 miles east of Steelville)	20
Shirley - Loc.297 near (Steelville to Potosi) . .	22
Sinking Creek at Locs.321,322 (Centerville to Rose Hill P.O.)	28
Smithville, Ark. - chert at Loc.335 (south of Lutesville) as at	35
Smithville horizon - between Locs. 348,349 (Husky to Jackson)	36
Steelville, Rolla to, via Meramec Springs road = Loc. 286	16
Steelville: 3 miles west of = Loc.285	15
10 miles east of - hill going east down Huzzah Creek, mouth of Dry Creek = Loc.291	20
Stones River at Loc.354 ($3\frac{3}{4}$ miles from Cape Girardeau)	37
Versailles, clay in Lincoln cut at, and at Fristoe - compare with clay on Dr. Buckley's farm . .	7
Ward, Lee - stopped with - Loc.336 (20 miles west of Marble Hill)	32
Webb, between Locs.324,325 (Tiptop to Leeper) . .	29
Whitewater River, Burfordville near = Loc.350 . .	36
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Yadkins Creek - near Loc.286 (first hill west of Steelville - Steelville to Potosi)	18
Yellville of Marion County series - thickness of .	2

